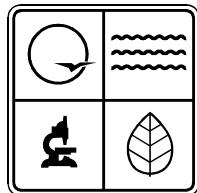


Missouri  
State Fleet Efficiency  
and  
Alternative Fuel Program

Annual Report  
Fiscal Year 2002



**Missouri Department of Natural Resources**  
Energy Center  
*“Integrity and excellence in all we do”*

DNR/EC-0303

PUB001195



This publication was prepared with the support of funds from the Oil Overcharge Settlement and State Energy Program through the U.S. Department of Energy (U.S. DOE) and the Missouri Department of Natural Resources' Energy Center.

**Missouri  
State Fleet Efficiency  
and  
Alternative Fuels Program  
Fiscal Year 2002**

The Fuel Conservation for State Vehicles statute, Sections 414.400 - 414.417 RSMo, and the federal Energy Policy Act establish opportunities for Missouri state agencies to manage transportation fuel consumption better and promote the use of clean domestic alternative fuels.

All state agencies are obligated to report their progress annually to the Missouri Department of Natural Resources' Energy Center for the development of this annual report.

We are pleased to submit for your consideration this report on state fleet efficiency and alternative fuels use.

Sincerely,

ENERGY CENTER

Anita C. Randolph  
Director



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## Executive Summary

Missouri's General Assembly passed Sections 414.400 - 414.417 RSMo in 1991 to set standards for economically and environmentally responsible state fleet management. The Missouri statute seeks to increase the average fuel efficiency of the state fleet and increase the use of cleaner domestic transportation fuels in state vehicles. Missouri Revised Statutes, Section 414.406, requires that the annual state fleet report include annual fuel consumption, number of vehicles, vehicle miles traveled, average fleet fuel economy, estimated cost savings and the state's use of alternative fuels. A copy of the Missouri statute can be found in Appendix A, and state fleet data submitted to the Department of Natural Resources by the reporting agencies can be found in Appendix B.

Missouri state agencies comply annually with statutory reporting requirements by providing the Missouri Department of Natural Resources with vehicle operating data on their respective fleets. As reported to the Department of Natural Resources, state agencies operated 11,909 vehicles during the 2002 fiscal year. Of the reported vehicles, 3,555 vehicles were reported as eligible to meet the vehicle fuel efficiency and alternative fuel requirements as described in the state statute. Another 8,354 state vehicles were reported as exempt from meeting those requirements.

Missouri statute allows for the exemption of state vehicles based on vehicle type and use.

Missouri state agencies also reported to the Department of Natural Resources that state employees logged a total of 39,905,631 miles while operating eligible state-owned vehicles. State employees pumped into the fuel tanks of eligible state-owned vehicles 1,805,361 gallons of gasoline; 35,204 gallons of diesel fuel; 62,953 gallons of 85 percent ethanol (E-85); 17,499 gallons of propane; and 1,680,218 cubic feet of compressed natural gas.

Although biodiesel is used to refuel vehicles generally exempt under this program, biodiesel blended at levels of 20 percent or greater is defined by the U.S. Department of Energy as an alternative fuel. For reporting purposes, biodiesel used at the 20 percent or greater blend levels are combined, converted and shown throughout this report at the 100 percent blend level. When converted to the 100 percent blend level, state diesel vehicles were refueled with 58,932 gallons of biodiesel throughout the reporting period.

Vehicle fuel efficiency standards described in Section 414.400, RSMo require that agency fleets purchase new vehicles that meet or exceed those standards set by the U.S. Environmental Protection Agency (EPA). Therefore, new vehicles purchased by state agencies are to meet or exceed the corporate average fuel efficiency (CAFE) standards of 27.5 miles per gallon (mpg) for passenger cars and 20.7 mpg for light duty trucks. During the 2002 fiscal year, the overall average fuel efficiency of new vehicle acquisitions reported by agency fleets was 36.3 mpg for passenger cars and 25.1 mpg for light duty trucks.

Alternative fuel standards described in Section 414.410, RSMo require that agency fleets purchase new vehicles that are capable of being refueled with an alternative fuel. During the 2001 - 2002 statutory period, 50 percent of all new vehicle acquisitions made by agency fleets were to be vehicles capable of being refueled with an alternative fuel. Of the 30 reporting state

agencies, 11 agencies met or exceeded the standard. Another 8 agencies did not meet the standard and 11 agencies weren't required to comply because they reported operating 15 or fewer eligible vehicles.

Section 414.400, RSMo requires that at least 30 percent of all fuel used in state-owned alternative fuel vehicles (AFVs) be the designated alternative fuel. During the 2002 fiscal year, 46 percent of all fuel used in state-owned AFVs was the designated alternative fuel. Biodiesel blended at the 20 percent level (B20) and used in diesel vehicles is included in this computation.

The Department of Natural Resources has worked throughout the reporting period to promote the continued and increased use of alternative fuels and has provided technical and programmatic assistance to state agencies.

The Missouri Department of Natural Resources would like to thank state agencies providing fleet vehicle operating data for this year's state fleet report. Since Missouri state fleet operations are managed at the agency level, vehicle operations data are only available through an annual data collection effort that requires the cooperation of all state agencies.

## Introduction

Missouri's General Assembly passed Sections 414.400 - 414.417 RSMo in 1991 to set standards for economically and environmentally responsible state fleet management. The Missouri statute seeks to increase the average fuel efficiency of the state fleet and increase the use of clean domestic transportation fuels in state vehicles. Chapter 414 of the Missouri Revised Statutes can be found in Appendix A of this report.

All state agencies are required to comply with the statute and are subject to one or both of the fleet-efficiency and alternative-fuel requirements. The statute covers light-duty vehicles, defined as those under 8,500 pounds gross vehicle weight rating (GVWR). The Department of Natural Resources is required to file an annual report on the Fuel Conservation for State Vehicles Program. The department has statutory authority to waive alternative fuel vehicle target acquisitions and the required percentage of alternative fuel use. The Office of Administration is required to ensure compliance with purchasing guidelines of alternative fuel vehicles and efficiency standards of conventional fuel vehicles.

The state legislation offers opportunities for state agencies to stretch operating budgets through greater fleet efficiency and to demonstrate technologies that reduce fuel consumption, manage travel efficiently and use clean domestic alternative fuels. It also offers opportunities for interagency communication and cooperation.

Based on statutory requirements<sup>1</sup>, the following are the Fuel Conservation for State Vehicles objectives:

1. *To achieve an efficient vehicle fleet.* Legislation effective January 1, 1999, requires state agencies to meet minimum guidelines for efficient vehicle fleet management as established by the Department of Natural Resources.
2. *To evaluate environmental and economic effects of using alternative transportation fuels.* State government is to operate vehicles on alternative fuels such as 85 percent ethanol (E-85), propane, compressed natural gas (CNG) or others if the fuels are within the incremental life-cycle cost caps designated in the statute. Legislation effective January 1, 1999, establishes the maximum incremental life-cycle cost difference at 10 percent, except for vehicles to be used in clean air maintenance and nonattainment areas of Kansas City and St. Louis, where the allowable incremental cost difference is 17 percent.

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<sup>1</sup>All agencies of Missouri state government are subject to the provisions of the program, with the exception of the departments of Transportation and Conservation, which may develop fleet management plans independently. Certain off-road vehicles, special use vehicles, law enforcement vehicles and vehicles for which no published EPA CAFE standard exists are exempt from the provisions.

3. *To increase the number of alternative fuel vehicles in state fleets.* Legislation effective January 1, 1999, requires any state agency operating a fleet of more than 15 motor vehicles to acquire vehicles capable of using alternative fuels as follows<sup>2</sup>:

- At least 10 percent of the agency's fleet vehicles acquired between July 1, 1994, and July 1, 1996;
- At least 30 percent of the agency's fleet vehicles acquired between July 1, 1996, and July 1, 1998; and
- At least 50 percent of the agency's fleet vehicles acquired between July 1, 1998, and July 1, 2000, and each biennial period thereafter.

After July 1, 2001, at least 30 percent of the fuel used in state-owned AFVs must be an alternative fuel.

Compliance with these requirements by individual agencies and in the aggregate is documented in annual reports submitted by the agencies to the Department of Natural Resources Energy Center following the end of the fiscal year. Summary tables showing the fleet operating data submitted by the individual agencies and in the aggregate can be found in Appendix B. The 2002 fiscal year ran from July 1, 2001 through June 30, 2002.

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<sup>2</sup>The requirement may be waived for any state agency upon receipt of certification supported by acceptable evidence that:

- The agency's vehicles will be operating primarily in an area in which neither the agency nor a supplier has, or can reasonably be expected to have, a central refueling station for alternative fuels;
- The agency is unable to acquire or operate vehicles within the 10 and 17 percent cost limitations using life-cycle cost methods; or
- The use of alternative fuels would not meet the energy conservation and exhaust emissions reduction criteria.

## **Annual Fuel Consumption, Number of Vehicles and Vehicle Miles Traveled**

Section 414.406, RSMo requires the Department of Natural Resources to prepare an annual state fleet report that documents annual fuel consumption, number of vehicles and vehicle miles traveled. Before beginning the discussion on state fleet operations, it is important to provide some essential background information on basic reporting parameters and methods.

The 30 state agencies that provided vehicle operating data to the Department of Natural Resources for the preparation of this year's report include the Attorney General's Office, Secretary of State, State Auditor, State Treasurer, Office of Administration, Department of Agriculture, Department of Conservation, Department of Corrections, Department of Economic Development, Department of Elementary and Secondary Education, Department of Health and Senior Services, Department of Higher Education, Department of Insurance, Department of Labor and Industrial Relations, Department of Mental Health, Department of Natural Resources, Department of Public Safety, Department of Revenue, Department of Social Services, Department of Transportation, Central Missouri State University, Harris-Stowe State College, Lincoln University, Missouri Southern State College, Missouri Western State College, Northwest Missouri State University, Southeast Missouri State University, Southwest Missouri State University, Truman State University and University of Missouri.

Some of the vehicles operated by state agencies are designated to duties that exempt the vehicles from vehicle fuel efficiency and alternative fuel requirements. These duties include off-road, maintenance, construction, trailer transport, law enforcement and emergency vehicles. Exempt vehicles also include those state vehicles that exceed the 8,500 gross vehicle weight rating (GVWR).

Eligible vehicles are those vehicles operated by state agency fleets that are required to meet state mandated vehicle fuel efficiency and alternative fuel requirements. Most eligible vehicles are primarily used for commuting from one location to another on established roadways.

When identified throughout the report, gasoline gallon equivalence (gge) is used as a unit of measure for alternative fuels. As a unit of measure, gasoline gallon equivalence is based on the fuel's energy content rather than the at-the-pump unit of measure normally shown in unit volume. An example of this is the comparison of a gallon of 85% ethanol (E-85) to a gallon of gasoline. Since the energy content of E-85 is less than that of gasoline, one gallon of E-85 is equivalent to 0.7130 gallon of gasoline.

If additional information on state fleet operations is needed other than that shown throughout the written sections of this report, see the summary tables found in Appendix B.

Shown in Table 1 are the annual fuel consumption numbers for state-owned vehicles operated during fiscal year 2002. Gasoline, diesel and alternative fuel consumption are compared for exempt, eligible and all vehicles operated throughout the reporting period. Although all alternative fuel used to refuel AFVs is included in the table's eligible vehicles column, the alternative fuel biodiesel is used to refuel diesel vehicles that are normally exempt from fuel

efficiency and alternative fuel requirements. For additional information on alternative fuel consumption, see the alternative fuel section of this report or the summary tables found in Appendix B.

**Table 1. Annual Fuel Consumption  
During Fiscal Year 2002**

<b>Fuel Type</b>	<b>Non-Exempt Vehicles</b>	<b>Exempt Vehicles</b>	<b>All State Vehicles</b>
Gasoline (gallons)	1,805,361	6,228,814	8,034,175
Diesel (gallons)	35,204	2,653,005	2,688,209
Alternative Fuel (gge)	73,111	63,647	136,758

Both annual fuel consumption and annual fuel cost numbers are submitted by state agencies to the Missouri Department of Natural Resources following the end of the fiscal year. Shown in Table 2 are the annual fuel costs that directly correspond to the fuel consumption numbers shown in Table 1.

**Table 2. Annual Fuel Cost  
During Fiscal Year 2002**

<b>Fuel Type</b>	<b>Non-Exempt Vehicles</b>	<b>Exempt Vehicles</b>	<b>All State Vehicles</b>
Gasoline	\$2,113,774	\$6,225,898	\$8,339,672
Diesel	\$41,859	\$2,471,832	\$2,513,691
Alternative Fuel	\$104,420	\$63,711	\$168,131
<b>Total</b>	<b>\$2,260,053</b>	<b>\$8,761,441</b>	<b>\$11,021,494</b>

To provide an accurate measure of the overall fleet size, Table 3 shows the number of state-owned vehicles operated by state agencies throughout fiscal year 2002. Since the agencies were asked to submit information on all vehicles operated throughout the reporting period, the number of state vehicles shown in Table 3 includes all vehicles acquired, all vehicles in continuous service and all vehicles no longer in state service throughout the period.

**Table 3. Number of Vehicles Operated  
During Fiscal Year 2002**

<b>Vehicle Type</b>	<b>Non-Exempt Vehicles</b>	<b>Exempt Vehicles</b>	<b>All State Vehicles</b>
Gasoline	2,726	6,110	8,836
Diesel	30	2,244	2,274
Alternative Fuel	799	0	799
<b>Total</b>	<b>3,555</b>	<b>8,354</b>	<b>11,909</b>

During fiscal year 2002, the vehicle miles traveled in eligible state vehicles were 27,812,670 miles in gasoline vehicles, 328,749 miles in diesel vehicles and 11,764,212 in alternative fuel vehicles. Since most exempt vehicles are primarily used for functions other than the shuttling of state workers from place-to-place, the agencies were not asked to submit the vehicle miles traveled in state vehicles that were exempt from fuel efficiency and alternative fuel requirements.

Annual maintenance cost data is an important part of a complex formula required to find the total operating cost for state-owned vehicles. Shown in Table 4 are the annual maintenance costs incurred for the repair and upkeep of state-owned vehicles operated throughout fiscal year 2002.

**Table 4. Annual Maintenance Cost  
During Fiscal Year 2002**

<b>Vehicle Type</b>	<b>Non-Exempt Vehicles</b>	<b>Exempt Vehicles</b>	<b>All State Vehicles</b>
Gasoline	\$1,070,215	\$2,834,539	\$3,904,754
Diesel	\$29,985	\$2,637,630	\$2,667,615
Alternative Fuel	\$286,865	\$0	\$286,865
<b>Total</b>	<b>\$1,387,065</b>	<b>\$5,472,169</b>	<b>\$6,859,234</b>

Caution should be exercised when interpreting the reported maintenance cost numbers shown throughout this report since the method used for collecting and reporting maintenance cost can be different from one agency to the next. For example, most agencies enter into vehicle repair and upkeep contracts with outside organizations while some agencies employ well-trained vehicle maintenance staff who are responsible for the repair and upkeep of agency vehicles.

## Average Fleet Fuel Economy

Although a procedural process for the computation of average fleet fuel economy is not described in Missouri state statutes, the statutes do require that each agency's overall vehicle fleet fuel efficiency for non-exempt state vehicles meet or exceed the CAFE standards set by the federal government.

On the federal side, EPA, with assistance from the U.S. Department of Transportation, has developed a numeric system for measuring vehicle fuel efficiency. The numeric system is called corporate average fuel economy (CAFE). CAFE is a complete numeric system that was designed to measure the vehicle fuel efficiency of all vehicles sold in the United States. Since CAFE is an average, a company can sell vehicles that exceed the CAFE standards as long as their overall averages are within the standards.

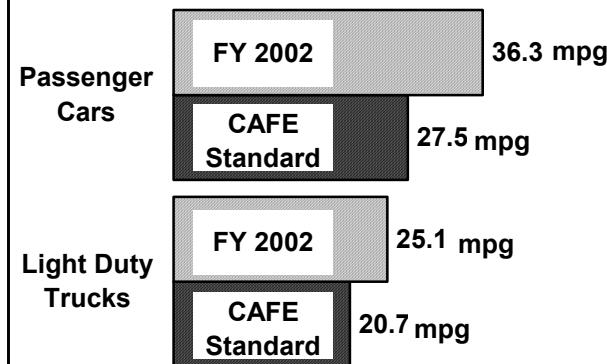
The CAFE standards signed into law are 27.5 mpg for passenger cars and 20.7 mpg for light duty trucks. Light duty trucks include pickups, sport utility vehicles (SUVs) and vans.

On the state side, the Missouri Department of Natural Resources' Energy Center has developed a set of procedures for computing the average fleet fuel economy using the CAFE system of measuring vehicle fuel efficiency. Only new vehicle acquisitions are included in the computation of the average fleet fuel economy. By including only new vehicle acquisitions, procedural emphasis is placed on the purchase of vehicles that meet or exceed the federal CAFE standards.

How did Missouri state agencies do during the 2002 fiscal year? State agencies exceeded the federal standard as shown in Figure 1, by purchasing 71 new passenger cars with an overall CAFE rating of 36.3 mpg. Agencies also exceeded the federal standard with new acquisitions of light duty trucks. Agencies purchased 69 new light duty trucks that earned an overall CAFE rating of 25.1 mpg.

If a popular state vehicle, such as the 2001 Ford Taurus has a CAFE rating of 26.2 mpg, how can the overall CAFE rating shown for new acquisition passenger cars be 36.3 mpg? The CAFE numeric system awards additional credit to alternative fuel vehicles. This boost can significantly increase the CAFE rating of alternative fuel vehicles. Some examples include: the 2002 E-85 Dodge Caravan, awarded a CAFE rating of 30.7 mpg, and the 2001 E-85 Chevrolet S10 pickup, awarded a CAFE rating of 32.6 mpg.

Figure 1 - Missouri State Fleet  
**Average Fleet Fuel Economy of  
New Acquisition Vehicles in  
Miles per Gallon**



Another way that some agencies chose to increase their overall fuel efficiency was to invest in exceptionally fuel-efficient hybrid vehicles. The 2002 hybrid Toyota Prius earned a CAFE rating of 57.6 mpg.

Although the CAFE ratings earned by many agencies were able to push the state's overall total above the CAFE standard, some agencies purchased vehicles that fell below the CAFE standard. Of the 14 agencies that purchased new passenger cars, the CAFE rating of only one agency fell below the CAFE standard. Of the 13 agencies that purchased new light duty trucks, the CAFE rating of five agencies fell below the CAFE standard.

Some of the reasons given by the agencies for below standard performance include their need for heavy-duty vehicles and vehicle resale values. For additional information, the CAFE ratings earned by each agency and the total ratings earned by the entire state fleet are shown in the fuel economy tables found in Appendix C.

## Alternative Fuel Use and Alternative Fuel Vehicle Acquisitions

As defined by Section 414.400, RSMo alternative fuels are those motor vehicle fuels that are substantially not petroleum, thereby contributing to substantial energy security and environmental benefits. The Department of Natural Resources prepares and distributes this annual state fleet report to document progress in achieving the requirements and goals of sections 414.400 to 414.417 and shall include, along with other vehicle information, the state fleet's use of alternative fuel. Alternative fuel vehicle acquisitions and alternative fuel use percentages are shown in Appendix D.

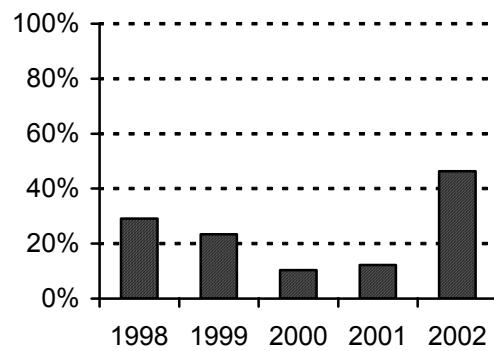
Throughout the 2002 fiscal year, more E-85 went into the onboard fuel tanks of specially equipped state vehicles than any other type of alternative fuel. Produced from 85 percent ethanol blended with 15 percent unleaded gasoline, E-85 is both an alternative and renewable fuel. During the 2002 fiscal year, state-owned E-85 vehicles were refueled with 62,953 gallons of E-85. Because of availability and other refueling issues, state-owned E-85 vehicles specially equipped to run on both E-85 and gasoline were also refueled with 350,441 gallons of unleaded gasoline.

Another alternative and renewable fuel, biodiesel, is pumped into the onboard fuel tanks of state-owned diesel vehicles. Although biodiesel is used to refuel state vehicles that generally are not considered eligible for this program, biodiesel blended at levels of 20 percent or greater is defined by the U.S. Environmental Protection Agency as both an alternative and renewable fuel. For reporting purposes, gallons of biodiesel used at the 20 percent or greater blend levels are combined, converted and shown throughout this report at the 100 percent blend level. When converted to the 100 percent blend level, state diesel vehicles were refueled with 58,932 gallons of biodiesel during the 2002 fiscal year reporting period.

Besides the alternative fuels that are processed from renewable farm crops, another group of alternative fuels works to reduce tailpipe emissions. This group of alternative fuels includes propane, compressed natural gas and electricity. During the reporting period, state vehicles used 17,499 gallons of propane, 1,680,218 cubic feet of compressed natural gas, and 2,179 kwh of electricity. To explain the usage disparity between fuels, propane is offered at many retail outlets throughout the state while compressed natural gas is currently offered at only one refueling site open to the public. Only one electric vehicle was operated throughout the reporting period.

Another important topic when reporting alternative fuel use is the percent of alternative fuel actually put into the onboard fuel tanks of state-owned vehicles. Since many AFVs can be refueled with either the designated alternative fuel or regular unleaded gasoline, state statutes specify that 30

Figure 2 - Missouri State Fleet  
**Alternative Fuel Use in State  
Owned Vehicles\***



\* Biodiesel (B20) used to refuel state owned diesel vehicles is included with the other alternative fuels.

percent of all fuel used in state-owned AFVs should be the alternative fuel. As shown in Figure 2, alternative fuels represented 46 percent of all vehicle fuel used in state-owned AFVs during the 2002 fiscal year.

How did the percent of alternative fuel used in state-owned vehicles jump from 12 percent in 2001 up to 46 percent in the 2002 reporting period? Biodiesel usage increased substantially during the new reporting period. If biodiesel (B20) consumption was not included, this number would drop to 15 percent (a three percent increase from last year).

During fiscal year 2002, the fuel usage ratios of alternative fuel to gasoline were 11 percent E-85 in flexible fuel E-85 vehicles, 31 percent compressed natural gas (CNG) in dual fuel CNG vehicles and 24 percent propane in dual fuel propane vehicles.

If 30 percent is the refueling requirement for alternative fuel use in AFVs, why are some state-owned AFVs refueled with less alternative fuel? Missouri state statutes do permit state agencies to operate and base AFVs at facilities where the designated alternative fuel is not reasonably available. Many agencies are able to comply with vehicle acquisition requirements but not yet able to comply with the 30 percent refueling goal, until additional refueling facilities are available.

Missouri state statutes also describe acquisition requirements for AFVs. During the 2001 - 2002 statutory period, at least 50 percent of all new vehicles acquired by state agencies are required to be vehicles capable of using alternative fuels. Of all 30 reporting state agencies, 11 agencies met or exceeded the statutory requirement. Another eight agencies did not meet the statutory requirement, and 11 agencies weren't required to meet the statutory requirement because they reported operating 15 or fewer eligible vehicles.

**Table 5. Location of Alternative Fuel Vehicles  
Operated by the Missouri State Fleet**

	<b>FY'98</b>	<b>FY'99</b>	<b>FY'00</b>	<b>FY'01</b>	<b>FY'02</b>
Jefferson City	170	217	264	330	352
St. Louis	74	68	63	89	76
Kansas City	14	31	48	42	62
Other	198	275	288	355	309
<b>Total</b>	<b>456</b>	<b>591</b>	<b>663</b>	<b>816</b>	<b>799</b>

Does location matter? As shown in Table 5, state agencies have alternative fuel vehicles stationed in locations throughout the state of Missouri. Whether alternative fuel vehicles can be refueled with the designated alternative fuel is almost entirely dependent on where the vehicles are located. State employees are best able to refuel the vehicles with the designated alternative

fuel if refueling with an alternative fuel is convenient. Vehicle location is also important since EPA has set air quality requirements for both Kansas City and St. Louis.

In addition to being the state capital, Jefferson City is the hub of state government activities. Many agencies locate at least some if not all of their vehicles in the Jefferson City area. The Jefferson City area is also a location for E-85, propane and biodiesel refueling sites.

Do alternative fuel vehicles cost more to operate than traditional gasoline and diesel fuel vehicles? To compare the operating cost of alternative fuel vehicles to traditional fuel vehicles, maintenance cost data submitted by the agencies to the Missouri Energy Center can be converted into an average maintenance cost per mile. For the 2002 fiscal year, the average maintenance cost of state vehicles (not exempt from program requirements) are as follows: 3.2 cents per mile for gasoline cars and station wagons; 4.5 cents per mile for light duty gasoline trucks, vans and SUVs; 9.1 cents per mile for light duty diesel vehicles; 2.3 cents per mile for E-85 vehicles; 3.9 cents per mile for compressed natural gas vehicles; and 3.2 cents per mile for propane vehicles.

## Program Status

The Missouri Revised Statutes, Sections 414.410 - 414.417, establish guidelines for the current vehicle fuel efficiency and alternative fuel vehicles program partly administered by the Missouri Department of Natural Resources. The established program includes the writing and distribution of an annual state fleet report, vehicle fuel efficiency standards for new vehicle acquisitions, requirements for alternative fuel use in alternative fuel vehicles and purchasing requirements for the acquisition of alternative fuel vehicles.

Participating state agencies submitted annual operating data to the Department of Natural Resources on agency vehicle operations and acquisitions made during 2002. In recent years, most vehicle purchases have met CAFE standards, and the actual average fuel efficiency for cars and light trucks is expected to significantly increase in the coming years. Compliance with the purchasing requirements is administered by the Office of Administration, Department of Transportation, Department of Conservation and higher education institutions.

The numbers and types of alternative fuel vehicles currently available to state agencies and the public from manufacturers are steadily increasing. All major U.S. vehicle manufacturers are producing alternative fuel vehicles. The number of available alternative fuel stations also is slowly increasing. A new E-85 refueling location is now available in Columbia. The Energy Center has published maps with the locations of the stations for alternative fuel vehicle drivers.

Many refueling stations throughout the state offer alternative fuels:

- Numerous propane refueling sites are located throughout Missouri. The Missouri Propane Gas Association in Jefferson City publishes a directory of propane refueling locations.
- CNG site – Shell station, I-44 and Hampton Ave., St. Louis
- E-85 sites – Ceruti Citgo, 15401 Clayton Road, Ballwin; Presto, 649 Bannister Road, Kansas City; Convenient Mart, 3714 W. Truman Blvd., Jefferson City; Convenient Mart, 701 Eastland Dr., Jefferson City; Tiger Conoco, 904 I-70 Drive Southwest, Columbia
- B20 site – Convenient Mart, 3714 W. Truman Blvd., Jefferson City

The Department of Natural Resources' Energy Center and industry representatives are working to encourage further use of alternative fuels in the appropriate AFVs. Colored labels for vehicle packets are available from the Energy Center to identify AFVs and provide local directions to refueling facilities. The E-85 pumps at each gas station are more prominently labeled.

As part of an ongoing effort to increase alternative fuel usage among state employees, the Energy Center has actively promoted the use of alternative fuels in state vehicles. During May 2002, the

Energy Center, in cooperation with several state agencies, conducted a survey of state employees

who drove a state vehicle during that month.

The Energy Center along with National Ethanol Vehicle Coalition (NEVC) and the Missouri Soybean Association hosted alternative fuel displays at selected Jefferson City, Missouri state agency locations to encourage state employees to use alternative fuels.

In addition, the Energy Center purchased alternative fuel signs for four state agencies to place at their respective fleet lots. These signs remind state employees to refuel with the appropriate alternative fuel in AFVs whenever possible. The sign design was unveiled at the annual state fleet managers' workshop on July 9, 2002.

Program barriers and recommendations are discussed in Appendix E.

# **Appendices**



## **Appendix A**

# **Federal and Missouri Legislation: Comparison of Key Alternative Fuel Provisions**

**Missouri Statute  
RSMo 414.400 - 414.417**



## Federal and Missouri Alternative Fuel Acts: Comparison of Key Provisions

<b>Clean Air Act</b>	<b>Energy Policy Act</b>	<b>Missouri Sections 414.400 - 417 RSMo, 1999</b>
<b>Applicability</b>		
Twenty-two metropolitan areas with populations of 250,000 or more (1980 census) with either serious, severe or extreme ozone or carbon monoxide areas.	Metropolitan areas with a 1980 population of 250,000 or more.	All state-owned vehicles throughout the state.
<b>Fleets Subject to Act</b>		
Fleets of ten or more vehicles that are centrally fueled or capable of being centrally fueled.	Fleets with at least 20 vehicles that are centrally fueled or capable of being centrally fueled in a metropolitan area; however, this requirement applies only if a fleet also has at least 50 vehicles within the United States.	State-owned fleets with more than 15 vehicles.
<b>Exemptions</b>		
Vehicles that are garaged at a personal residence overnight are to be considered <u>not</u> capable of central fueling.  Law enforcement vehicles.  Emergency vehicles.	Private fleet vehicles that are garaged at home overnight are exempted.  Law enforcement vehicles. The Secretary of Energy may terminate this exemption.  Emergency vehicles.	Off-road vehicles, maintenance and construction vehicles and transport trailers.  Law enforcement vehicles.  Emergency vehicles.
<b>Fuels</b>		
Any fuel that meets the emission standard may be used, including reformulated gasoline, clean diesel, ethanol, methanol, propane, electricity and natural gas.	Alternative fuels include methanol, ethanol, natural gas, propane, biodiesel and electricity. Reformulated gasoline is not considered to be an alternative fuel.	Alternative fuels include 85 percent methanol, 85 percent ethanol, natural gas, propane, 20 percent biodiesel, hydrogen and electricity. Reformulated gasoline is not considered to be an alternative fuel.

<b>Clean Air Act</b>	<b>Energy Policy Act</b>	<b>Missouri Sections 414.400 - 417 RSMo, 1999</b>
<b>Weight Limits</b>		
Includes automobiles and trucks up to 26,000 pounds gross vehicle weight.	Includes vehicles with a gross vehicle weight of less than or equal to 8,500 pounds.	For reporting purposes, state agencies are including only those eligible vehicles less than or equal to 8,500 pounds (GVWR).
<b>Purchase Dates</b>		
Beginning with model year 1998.	Federal fleet – 1993 State fleets - model year 1996. Private and municipal fleets - model year 1999 or later (subject to ruling by the secretary of energy that a private/municipal fleet program is needed.) Fuel provider fleets - model year 1996.	Acquire vehicles capable of using alternative fuels: 10 percent by July 1, 1996 30 percent by July 1, 1998 50 percent by July 1, 2000 By July 1, 2002, 30% of fuel used in AFVs must be an alternative fuel.
<b>Vehicle And Fuel Availability</b>		
There are no exemptions provided in the law in the event vehicles or fuel are not available.	The secretary of energy must exempt a fleet if vehicles or fuels are not available.	The Missouri Department of Natural Resources' director may reduce any percentage specified or waive requirements upon receipt of certification supported by evidence to the director that: 1) Fuels are not available; 2) Fuels do not meet cost limitations; or 3) Fuels do not meet energy conservation or emissions criteria.

**Missouri Revised Statutes**  
**Chapter 414**  
**Fuel Regulation and Conservation**  
**Section 414.400**

August 28, 1999

**Definitions--program for state fuel consumption reduction, fleet management and promotion of alternative fuels, University of Missouri, included duties--exceptions for certain vehicles.**

414.400. 1. As used in sections 414.400 to 414.417, the following terms mean:

- (1) "Alternative fuel", any fuel, including any alcohol fuel containing eighty-five percent or more by volume of such alcohol or other such percentage not less than seventy percent if determined by the United States Department of Energy by rule to be necessary to provide for the requirements of cold start, safety, or vehicle functions, natural gas, liquefied petroleum gas, any fuel other than alcohol derived from biological materials when designated by the United States Department of Energy as an alternative fuel, and hydrogen, or any power source, including electricity, and any other fuel that the United States Department of Energy determines by final rule is substantially not petroleum and would yield substantial energy security and environmental benefits, used in a vehicle that complies with the standards and requirements applicable to such vehicle pursuant to sections 414.400 to 414.417 when using such fuel or power source;
- (2) "CAFE standard", the federal Corporate Average Fuel Economy standard, 15 U.S.C. 2002 or 40 CFR Parts 86 and 600 or 49 CFR Part 538 or proposed rule 49 CFR Part 538 until such rule is finalized;
- (3) "Department", the department of natural resources;
- (4) "Director", the director of the department of natural resources;
- (5) "State agency", the same meaning as such term is defined in section 536.010, RSMo;
- (6) "Vehicle fleet", any fleet comprised of vehicles with a manufacturer's gross vehicle weight rating of not more than eight thousand five hundred pounds registered for operation on the highways of this state pursuant to chapter 301, RSMo.

2. The department in consultation with the commissioner of administration shall develop and implement a program to manage and progressively reduce state agency vehicle fleet fuel consumption and promote the use of alternative fuels. The program shall require state agencies to meet minimum guidelines for efficient fleet management. Such guidelines shall be updated and revised every two years and shall require the overall vehicle fleet fuel efficiency for each agency to meet or exceed the fuel efficiency that would be achieved if each vehicle in the agency's fleet met the CAFE standard. The department may promulgate rules necessary to implement such guidelines. Further, provided that suppliers or state agencies have or can reasonably be expected to have established alternative fuel refueling stations as needed, the program shall require that at least thirty percent of all motor fuel purchased annually for use in alternative fuel vehicles, calculated in gasoline gallon equivalents, to be alternative fuel by July 1, 2001. Any alternative fuel purchased by a state agency for use in vehicles not included in their vehicle fleet as defined in subsection 1 of this section, calculated in gasoline gallon equivalents, may be credited toward the annual alternative fuel purchase goal. The program shall

systematically replace existing state-owned vehicles and vehicles paid for with any state money, including vehicles purchased by the university system, with vehicles manufactured, assembled or produced in the United States, as required by sections 34.350 to 34.359, RSMo.

3. The commissioner of administration shall identify specific vehicle models within each vehicle procurement class that meet or exceed the CAFE standard. State agencies shall identify specific vehicle models within each vehicle procurement class that have a life cycle cost which is less than or equal to the average life cycle cost of those vehicles in the class which are manufactured, assembled or produced in the United States. Life cycle costs shall include but are not limited to the original cost of the vehicle, conversion cost if applicable, costs associated with vehicle emissions to the extent that such statistics are available, and projected cost of operation, including fuel cost and maintenance and salvage value to the extent that reliable maintenance and salvage value statistics are available. Unless a state agency submits to the department a fleet efficiency plan that complies with the minimum guidelines for energy efficiency established pursuant to subsection 2 of this section, or unless otherwise approved by the office of administration pursuant to subsection 4 of this section, all purchases of vehicles for state agency vehicle fleets shall meet the above standards.

4. The commissioner of administration may waive the CAFE standard requirements of subsection 3 of this section, for only those vehicles which satisfy one or more of the following conditions, for any state agency upon receipt of documentation that has been certified by the director of the state agency as satisfying one or more of the following conditions:

- (1) Such vehicles are used primarily in off-road, construction, or road maintenance applications;
- (2) Such vehicles are regularly used in the movement of maintenance or construction equipment;
- (3) Such vehicles are trucks or utility vehicles as defined by the office of administration that are regularly used to transport trailers for the purpose of moving state equipment; or
- (4) Such vehicles are vehicles with manufacturer-stated seating capacity exceeding that for six persons and the director of the agency has certified that the vehicle will be used to transport its rated capacity in persons and/or cargo. Agencies which are granted such waivers shall comply with the planning requirements of section 414.403.

5. The purchase of all class III vehicles, as defined by the office of administration, shall be approved through the appropriations process for all departments except the highway patrol. The provisions of this subsection shall not apply to the purchase of used vehicles from the highway patrol.

(L. 1991 H.B. 45 § 1, A.L. 1998 S.B. 619)

Effective 1-1-99

**Chapter 414**  
**Fuel Regulation and Conservation**  
**Section 414.403**

August 28, 1996

**Vehicle fleet energy conservation plan to be developed by each state agency, purpose of plan, content--plan to be submitted to department of natural resources, when.**

414.403. 1. Each state agency, with assistance from the department of natural resources, shall develop and implement a vehicle fleet energy conservation plan for the purposes of reducing vehicle fuel consumption. Plans shall be submitted to the director of the department of natural resources by January 1, 1993. Such plans shall include:

- (1) A timetable by which fleet vehicles shall be replaced with vehicles which exceed the average fuel economy for their vehicle class as outlined in section 414.400;
- (2) Options for the use of demonstrated innovative technologies that promote energy conservation and reduced fuel consumption;
- (3) Methods that promote efficient trip planning and state vehicle use; and
- (4) Car-pooling and van pooling for agency employees for commuting and job-related travel.

2. The department of conservation and the department of highways and transportation may develop their own vehicle fleet energy conservation plan. Such plans shall meet the objectives of sections 414.400 to 414.417 and shall comply with the reporting requirements of sections 414.400 to 414.417.

(L. 1991 H.B. 45 § 2)

**Chapter 414**  
**Fuel Regulation and Conservation**  
**Section 414.406**

**Vehicle fleet plan reviewed--office of administration to purchase only vehicles conforming to plan--annual report, content.**

414.406. 1. The director of the department of natural resources shall review each agency's vehicle fleet plan and the vehicular demands of the agency by vehicle class. The office of administration shall only purchase for an agency those vehicles which conform to the agency's plan as outlined in sections 414.400 and 414.403.

2. Each state agency shall annually file a report with the director of the department of natural resources on forms provided by the department showing its progress in achieving the requirements and goals of sections 414.400 to 414.417. The director of the department of natural resources shall compile such information into an annual report and submit such report to the commissioner of administration, the secretary of the senate, the clerk of the house of representatives and the chairman of each committee of jurisdiction of the general assembly.

3. The director's report shall document progress in achieving the requirements and goals of sections 414.400 to 414.417 and shall include, but not be limited to, annual fuel consumption,

number of vehicles, vehicle miles traveled, average fleet fuel economy, estimated cost savings and state use of alternative fuels.

(L. 1991 H.B. 45 § 3)

**Chapter 414**  
**Fuel Regulation and Conservation**  
**Section 414.410**

**Motor vehicle alternative fuel use plan to be developed by department of natural resources--powers and duties--state agency fleets of fifteen or more vehicles, time table for using alternative fuels.**

414.410. 1. The director shall develop a motor vehicle alternative fuel use plan. The director shall cooperate with state agency fleet operators, vehicle manufacturers and converters, fuel distributors and others to identify the types of vehicles which could be converted to alternative fuels. The director shall consider range, specialty uses, fuel availability, vehicle cost, vehicle manufacturing and conversion capability, safety, resale values, and other relevant factors.

2. The department shall recommend alternative fuels which state agencies and state universities may consider when purchasing vehicles. The department shall consider the content of vehicle exhaust emissions, the relative efficiency of the fuel, the relative efficiency of the processes required to produce the fuel and the characteristics of air emissions associated with the production of that fuel. It shall recommend for state use those alternative fuels which best satisfy the goals of energy conservation and emissions reduction.

3. Any state agency which operates a fleet of more than fifteen motor vehicles shall acquire vehicles capable of using alternative fuels as follows:

- (1) At least ten percent of the agency's fleet vehicles acquired between July 1, 1994, and July 1, 1996;
- (2) At least thirty percent of the agency's fleet vehicles acquired between July 1, 1996, and July 1, 1998; and
- (3) At least fifty percent of the agency's fleet vehicles acquired between July 1, 1998, and July 1, 2000, and each biennial period thereafter.

If a state agency exceeds any such biennial acquisition goal, or has purchased vehicles capable of using alternative fuels before July 1, 1994, such purchases may be credited to any future biennial acquisition goal. If a state agency has purchased vehicles capable of using alternative fuels but not included in their vehicle fleet as defined in subsection 1 of section 414.400, such purchases may be credited toward any biennial acquisition goal. If a state agency fails to meet a biennial acquisition goal, the commissioner of administration shall not authorize for such agency the purchase of any vehicle not capable of using alternative fuels until such acquisition goal is met, unless the director has reduced or waived the acquisition goal pursuant to subsection 1 of section 414.412.

(L. 1991 H.B. 45 § 4 subsecs. 1, 2, 3, A.L. 1998 S.B. 619)

Effective 1-1-99

**Chapter 414**  
**Fuel Regulation and Conservation**  
**Section 414.412**

**Alternative use of fuel, waived or percentage reduced by director of natural resources, certified evidence required--other vehicles, ethanol use required, exceptions.**

414.412. 1. The director may reduce any percentage specified or waive the requirement of subsection 3 of section 414.410 for any state agency upon receipt of certification supported by evidence acceptable to the director that:

- (1) The agency's vehicles will be operating primarily in an area in which neither the agency nor a supplier has or can reasonably be expected to have a central refueling station for alternative fuels; or
- (2) The agency is unable to acquire or operate vehicles within the cost limitations of section 414.400 or section 414.415; or
- (3) The use of alternative fuels would not meet the energy conservation and exhaust emissions reduction criteria of subsection 2 of section 414.410.

2. State agencies shall submit information describing the acquisition and use of vehicles capable of using alternative fuels to the department in a format prescribed by the department. The report shall include for each vehicle model capable of using alternative fuel:

- (1) The types of alternative fuels used;
- (2) The number of miles traveled using alternative fuels and the ratios to the total numbers of miles traveled;
- (3) The number of vehicles owned which are capable of using alternative fuels;
- (4) Maintenance costs.

3. Each state-owned vehicle equipped to operate on gasoline, other than vehicles using alternative fuel, shall use a fuel ethanol blend as defined in section 142.027, RSMo, when available at a competitive price, as its motor fuel, unless the United States Environmental Protection Agency, or the governor by executive order, promulgates rules which prohibit, limit or otherwise regulate the use of ethanol-blended fuels in ozone nonattainment areas, as defined by Section 107 of the federal Clean Air Act, as amended, or in an\* area designated as a maintenance area for ozone under Section 175A of the federal Clean Air Act, as amended, state-owned vehicles shall not be required to use a fuel ethanol blend.

(L. 1991 H.B. 45 § 4 subsecs. 4, 5, 6, A.L. 1993 H.B. 611, A.L. 1998 S.B. 619)

Effective 1-1-99

**Chapter 414**  
**Fuel Regulation and Conservation**  
**Section 414.415**

**Percentage requirements, how state agencies to comply.**

414.415. State agencies may meet the percentage requirements of sections 414.410 to 414.415 through purchase of original equipment manufactured alternative fuel vehicles or the conversion of vehicles, in accordance with federal and state requirements and applicable safety laws. Vehicles purchased pursuant to sections 414.410 to 414.415 shall not exceed the cost of conventional fuel vehicles of the same make and model by more than ten percent, using life cycle costing methods calculated pursuant to criteria in subsection 3 of section 414.400, except that vehicles purchased pursuant to sections 414.410 to 414.415 that are based for the life of the vehicle and used primarily in maintenance and nonattainment areas defined with regard to the National Ambient Air Quality Standards of the federal Clean Air Act, as amended, 42 U.S.C. 7401 et seq., shall not exceed such cost of conventional fuel vehicles of the same make and model by more than seventeen percent. The commissioner of administration in purchasing, leasing, maintaining or converting vehicles for alternative fuels use shall comply with all applicable safety standards promulgated by the United States Department of Transportation.

(L. 1991 H.B. 45 § 4 subsec. 7, A.L. 1998 S.B. 619)

Effective 1-1-99

**Chapter 414**  
**Fuel Regulation and Conservation**  
**Section 414.417**

**Criminal law enforcement vehicles and certain other vehicles, law not applicable--  
demonstration vehicles for alternative fuels authorized.**

414.417. 1. Sections 414.400 to 414.417 shall not apply to the purchase or lease of a vehicle to be used primarily for criminal law enforcement or to the purchase or lease of a motorcycle, all-terrain vehicle, ambulance, or any type of vehicle for which the Environmental Protection Agency has not published fuel economy comparisons.  
2. Notwithstanding the provisions of sections 414.400 to 414.417, the department of natural resources may acquire vehicles which use alternative fuels for the purposes of assessing and demonstrating either or both alternative vehicles and alternative fuels.

(L. 1991 H.B. 45 § 5)

## **Appendix B**

# **State Fleet Summary Tables and Fleet Data by State Agency**



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**SUMMARY TABLE  
VEHICLE OPERATIONS**

**MISSOURI STATE FLEET  
FISCAL YEAR 2002**

Many management functions of the Missouri state fleet are decentralized. Day-to-day decisions and record keeping tasks are performed by each agency. Therefore, the operations data used to generate this table were provided by the Missouri state agencies that use on-road and off-road motor vehicles to accomplish their official duties.

**ELIGIBLE VEHICLES**

Eligible vehicles include only those vehicles that are eligible to meet vehicle fuel efficiency and alternative fuel requirements specified in RSMo 414.400-414.417. At-the-pump units are cubic feet for CNG; kwh for electric; and gallons for gasoline, diesel, E85 and propane.

Vehicle Type	Description	Number of Vehicles	Miles Traveled	Fuel Consumption (at-the-pump units)		Cost		
				Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel	Maintenance
Gasoline	Cars and Station Wagons	1,158	13,738,622	546,084		\$637,145		\$433,534
Gasoline	Light Duty Trucks, Vans and SUVs	1,568	14,074,048	833,745		\$988,077		\$636,681
Diesel	Light Duty Vehicles, Not Otherwise Exempted	30	328,749	35,204		\$41,859		\$29,985
E85	E85 Flex Fuel Vehicles	692	10,150,289	350,441	62,953	\$406,078	\$73,401	\$229,952
CNG	Dual Fuel and Dedicated CNG Vehicles	35	737,836	32,128	1,680,218	\$32,719	\$14,658	\$28,759
Propane	Dual Fuel and Dedicated Propane Vehicles	71	870,772	42,963	17,499	\$49,755	\$16,187	\$28,154
Electric	Dedicated Electric Vehicles	1	5,315		2,179		\$174	\$0

**EXEMPT VEHICLES**

Exempt vehicles are those vehicles that for reasons given in RSMo 414.400 - 414.417 are exempt from vehicle fuel efficiency and alternative fuel requirements. Agencies unable to provide complete operating data on exempt vehicles include the Attorney General's Office, Central Missouri State University and the Department of Public Safety. As reported by the agencies, some or all vehicle operating data are not shown for less than 3 percent of all exempt vehicles operated by the state.

Motor Fuel	Number of Vehicles		Fuel Consumption (gallons)	Cost	
	<= 8500 lbs	> 8500 lbs		Motor Fuel	Maintenance
Gasoline	4,835	1,275	6,228,814	\$6,225,898	\$2,834,539
Diesel	29	2,215	2,653,005	\$2,471,832	\$2,637,630
B100			58,932	\$63,711	

**SUMMARY TABLE  
VEHICLE OPERATIONS**

**ATTORNEY GENERAL'S OFFICE  
FISCAL YEAR 2002**

Many management functions of the Missouri state fleet are decentralized. Day-to-day decisions and record keeping tasks are performed by each agency. Therefore, the operations data used to generate this table were provided by the Missouri state agencies that use on-road and off-road motor vehicles to accomplish their official duties.

**ELIGIBLE VEHICLES**

Eligible vehicles include only those vehicles that are eligible to meet vehicle fuel efficiency and alternative fuel requirements specified in RSMo 414.400-414.417. At-the-pump units are cubic feet for CNG; kwh for electric; and gallons for gasoline, diesel, E85 and propane.

Vehicle Type	Description	Number of Vehicles	Miles Traveled	Fuel Consumption (at-the-pump units)		Cost		
				Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel	Maintenance
Gasoline	Cars and Station Wagons	0	0	0		\$0		\$0
Gasoline	Light Duty Trucks, Vans and SUVs	0	0	0		\$0		\$0
Diesel	Light Duty Vehicles, Not Otherwise Exempted	0	0	0		\$0		\$0
E85	E85 Flex Fuel Vehicles	0	0	0	0	\$0	\$0	\$0
CNG	Dual Fuel and Dedicated CNG Vehicles	0	0	0	0	\$0	\$0	\$0
Propane	Dual Fuel and Dedicated Propane Vehicles	0	0	0	0	\$0	\$0	\$0
Electric	Dedicated Electric Vehicles	0	0		0		\$0	\$0

**EXEMPT VEHICLES**

Exempt vehicles are those vehicles that for reasons given in RSMo 414.400 - 414.417 are exempt from vehicle fuel efficiency and alternative fuel requirements. Agencies unable to provide complete operating data on exempt vehicles include the Attorney General's Office, Central Missouri State University and the Department of Public Safety. As reported by the agencies, some or all vehicle operating data are not shown for less than 3 percent of all exempt vehicles operated by the state.

Motor Fuel	Number of Vehicles		Fuel Consumption (gallons)	Cost	
	<= 8500 lbs	> 8500 lbs		Motor Fuel	Maintenance
Gasoline	33	1	0	\$0	\$0
Diesel	0	0	0	\$0	\$0
B100			0	\$0	

System Query Date: Monday, March 31, 2003

**SUMMARY TABLE  
VEHICLE OPERATIONS**

**SECRETARY OF STATE  
FISCAL YEAR 2002**

Many management functions of the Missouri state fleet are decentralized. Day-to-day decisions and record keeping tasks are performed by each agency. Therefore, the operations data used to generate this table were provided by the Missouri state agencies that use on-road and off-road motor vehicles to accomplish their official duties.

**ELIGIBLE VEHICLES**

Eligible vehicles include only those vehicles that are eligible to meet vehicle fuel efficiency and alternative fuel requirements specified in RSMo 414.400-414.417. At-the-pump units are cubic feet for CNG; kwh for electric; and gallons for gasoline, diesel, E85 and propane.

Vehicle Type	Description	Number of Vehicles	Miles Traveled	Fuel Consumption (at-the-pump units)		Cost		
				Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel	Maintenance
Gasoline	Cars and Station Wagons	4	71,280	2,795		\$3,494		\$3,108
Gasoline	Light Duty Trucks, Vans and SUVs	3	37,834	1,997		\$1,595		\$1,010
Diesel	Light Duty Vehicles, Not Otherwise Exempted	0	0	0		\$0		\$0
E85	E85 Flex Fuel Vehicles	5	101,883	5,211	0	\$3,889	\$0	\$449
CNG	Dual Fuel and Dedicated CNG Vehicles	0	0	0	0	\$0	\$0	\$0
Propane	Dual Fuel and Dedicated Propane Vehicles	0	0	0	0	\$0	\$0	\$0
Electric	Dedicated Electric Vehicles	0	0		0		\$0	\$0

**EXEMPT VEHICLES**

Exempt vehicles are those vehicles that for reasons given in RSMo 414.400 - 414.417 are exempt from vehicle fuel efficiency and alternative fuel requirements. Agencies unable to provide complete operating data on exempt vehicles include the Attorney General's Office, Central Missouri State University and the Department of Public Safety. As reported by the agencies, some or all vehicle operating data are not shown for less than 3 percent of all exempt vehicles operated by the state.

Motor Fuel	Number of Vehicles		Fuel Consumption (gallons)	Cost	
	<= 8500 lbs	> 8500 lbs		Motor Fuel	Maintenance
Gasoline	1	0	793	\$938	\$338
Diesel	0	0	0	\$0	\$0
B100			0	\$0	

System Query Date: Monday, March 31, 2003

**SUMMARY TABLE  
VEHICLE OPERATIONS**

**STATE AUDITOR  
FISCAL YEAR 2002**

Many management functions of the Missouri state fleet are decentralized. Day-to-day decisions and record keeping tasks are performed by each agency. Therefore, the operations data used to generate this table were provided by the Missouri state agencies that use on-road and off-road motor vehicles to accomplish their official duties.

**ELIGIBLE VEHICLES**

Eligible vehicles include only those vehicles that are eligible to meet vehicle fuel efficiency and alternative fuel requirements specified in RSMo 414.400-414.417. At-the-pump units are cubic feet for CNG; kwh for electric; and gallons for gasoline, diesel, E85 and propane.

Vehicle Type	Description	Number of Vehicles	Miles Traveled	Fuel Consumption (at-the-pump units)		Cost		
				Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel	Maintenance
Gasoline	Cars and Station Wagons	1	12,116	484		\$611		\$196
Gasoline	Light Duty Trucks, Vans and SUVs	2	21,319	986		\$1,256		\$1,385
Diesel	Light Duty Vehicles, Not Otherwise Exempted	0	0	0		\$0		\$0
E85	E85 Flex Fuel Vehicles	1	20,279	942	0	\$1,120	0	\$131
CNG	Dual Fuel and Dedicated CNG Vehicles	0	0	0	0	\$0	0	\$0
Propane	Dual Fuel and Dedicated Propane Vehicles	0	0	0	0	\$0	0	\$0
Electric	Dedicated Electric Vehicles	0	0		0		0	\$0

**EXEMPT VEHICLES**

Exempt vehicles are those vehicles that for reasons given in RSMo 414.400 - 414.417 are exempt from vehicle fuel efficiency and alternative fuel requirements. Agencies unable to provide complete operating data on exempt vehicles include the Attorney General's Office, Central Missouri State University and the Department of Public Safety. As reported by the agencies, some or all vehicle operating data are not shown for less than 3 percent of all exempt vehicles operated by the state.

Motor Fuel	Number of Vehicles		Fuel Consumption (gallons)	Cost	
	<= 8500 lbs	> 8500 lbs		Motor Fuel	Maintenance
Gasoline	0	0	0	\$0	\$0
Diesel	0	0	0	\$0	\$0
B100			0	\$0	

System Query Date: Monday, March 31, 2003

**SUMMARY TABLE  
VEHICLE OPERATIONS**

**STATE TREASURER  
FISCAL YEAR 2002**

Many management functions of the Missouri state fleet are decentralized. Day-to-day decisions and record keeping tasks are performed by each agency. Therefore, the operations data used to generate this table were provided by the Missouri state agencies that use on-road and off-road motor vehicles to accomplish their official duties.

**ELIGIBLE VEHICLES**

Eligible vehicles include only those vehicles that are eligible to meet vehicle fuel efficiency and alternative fuel requirements specified in RSMo 414.400-414.417. At-the-pump units are cubic feet for CNG; kwh for electric; and gallons for gasoline, diesel, E85 and propane.

Vehicle Type	Description	Number of Vehicles	Miles Traveled	Fuel Consumption (at-the-pump units)		Cost		
				Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel	Maintenance
Gasoline	Cars and Station Wagons	0	0	0		\$0		\$0
Gasoline	Light Duty Trucks, Vans and SUVs	1	1,110	139		\$167		\$0
Diesel	Light Duty Vehicles, Not Otherwise Exempted	0	0	0		\$0		\$0
E85	E85 Flex Fuel Vehicles	1	14,895	442	40	\$500	\$39	\$88
CNG	Dual Fuel and Dedicated CNG Vehicles	0	0	0	0	\$0	\$0	\$0
Propane	Dual Fuel and Dedicated Propane Vehicles	0	0	0	0	\$0	\$0	\$0
Electric	Dedicated Electric Vehicles	0	0	0	0	\$0	\$0	\$0

**EXEMPT VEHICLES**

Exempt vehicles are those vehicles that for reasons given in RSMo 414.400 - 414.417 are exempt from vehicle fuel efficiency and alternative fuel requirements. Agencies unable to provide complete operating data on exempt vehicles include the Attorney General's Office, Central Missouri State University and the Department of Public Safety. As reported by the agencies, some or all vehicle operating data are not shown for less than 3 percent of all exempt vehicles operated by the state.

Motor Fuel	Number of Vehicles		Fuel Consumption (gallons)	Cost	
	<= 8500 lbs	> 8500 lbs		Motor Fuel	Maintenance
Gasoline	0	0	0	\$0	\$0
Diesel	0	0	0	\$0	\$0
B100			0	\$0	

System Query Date: Monday, March 31, 2003

**SUMMARY TABLE  
VEHICLE OPERATIONS**

**DEPARTMENT OF AGRICULTURE  
FISCAL YEAR 2002**

Many management functions of the Missouri state fleet are decentralized. Day-to-day decisions and record keeping tasks are performed by each agency. Therefore, the operations data used to generate this table were provided by the Missouri state agencies that use on-road and off-road motor vehicles to accomplish their official duties.

**ELIGIBLE VEHICLES**

Eligible vehicles include only those vehicles that are eligible to meet vehicle fuel efficiency and alternative fuel requirements specified in RSMo 414.400-414.417. At-the-pump units are cubic feet for CNG; kwh for electric; and gallons for gasoline, diesel, E85 and propane.

Vehicle Type	Description	Number of Vehicles	Miles Traveled	Fuel Consumption (at-the-pump units)		Cost		
				Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel	Maintenance
Gasoline	Cars and Station Wagons	110	1,747,609	76,420		\$84,260		\$63,214
Gasoline	Light Duty Trucks, Vans and SUVs	101	1,573,198	93,465		\$108,499		\$45,100
Diesel	Light Duty Vehicles, Not Otherwise Exempted	8	123,833	19,577		\$23,395		\$19,991
E85	E85 Flex Fuel Vehicles	29	480,307	15,784	4,597	\$18,830	\$5,399	\$12,017
CNG	Dual Fuel and Dedicated CNG Vehicles	0	0	0	0	\$0	\$0	\$0
Propane	Dual Fuel and Dedicated Propane Vehicles	4	90,983	2,935	3,592	\$3,349	\$3,432	\$1,975
Electric	Dedicated Electric Vehicles	0	0		0		\$0	\$0

**EXEMPT VEHICLES**

Exempt vehicles are those vehicles that for reasons given in RSMo 414.400 - 414.417 are exempt from vehicle fuel efficiency and alternative fuel requirements. Agencies unable to provide complete operating data on exempt vehicles include the Attorney General's Office, Central Missouri State University and the Department of Public Safety. As reported by the agencies, some or all vehicle operating data are not shown for less than 3 percent of all exempt vehicles operated by the state.

Motor Fuel	Number of Vehicles		Fuel Consumption (gallons)	Cost	
	<= 8500 lbs	> 8500 lbs		Motor Fuel	Maintenance
Gasoline	0	0	0	\$0	\$0
Diesel	0	0	0	\$0	\$0
B100			0	\$0	

System Query Date: Monday, March 31, 2003

**SUMMARY TABLE  
VEHICLE OPERATIONS**

**DEPARTMENT OF CONSERVATION  
FISCAL YEAR 2002**

Many management functions of the Missouri state fleet are decentralized. Day-to-day decisions and record keeping tasks are performed by each agency. Therefore, the operations data used to generate this table were provided by the Missouri state agencies that use on-road and off-road motor vehicles to accomplish their official duties.

**ELIGIBLE VEHICLES**

Eligible vehicles include only those vehicles that are eligible to meet vehicle fuel efficiency and alternative fuel requirements specified in RSMo 414.400-414.417. At-the-pump units are cubic feet for CNG; kwh for electric; and gallons for gasoline, diesel, E85 and propane.

Vehicle Type	Description	Number of Vehicles	Miles Traveled	Fuel Consumption (at-the-pump units)		Cost		
				Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel	Maintenance
Gasoline	Cars and Station Wagons	27	331,082	13,132		\$15,102		\$8,541
Gasoline	Light Duty Trucks, Vans and SUVs	94	1,096,381	58,111		\$67,099		\$29,979
Diesel	Light Duty Vehicles, Not Otherwise Exempted	0	0	0		\$0		\$0
E85	E85 Flex Fuel Vehicles	48	524,832	18,893	1,422	\$22,563	\$1,698	\$7,160
CNG	Dual Fuel and Dedicated CNG Vehicles	0	0	0	0	\$0	\$0	\$0
Propane	Dual Fuel and Dedicated Propane Vehicles	0	0	0	0	\$0	\$0	\$0
Electric	Dedicated Electric Vehicles	0	0		0		\$0	\$0

**EXEMPT VEHICLES**

Exempt vehicles are those vehicles that for reasons given in RSMo 414.400 - 414.417 are exempt from vehicle fuel efficiency and alternative fuel requirements. Agencies unable to provide complete operating data on exempt vehicles include the Attorney General's Office, Central Missouri State University and the Department of Public Safety. As reported by the agencies, some or all vehicle operating data are not shown for less than 3 percent of all exempt vehicles operated by the state.

Motor Fuel	Number of Vehicles		Fuel Consumption (gallons)	Cost	
	<= 8500 lbs	> 8500 lbs		Motor Fuel	Maintenance
Gasoline	813	299	1,144,054	\$1,352,749	\$634,123
Diesel	0	92	154,148	\$185,002	\$136,795
B100			0	\$0	

**SUMMARY TABLE  
VEHICLE OPERATIONS**

**DEPARTMENT OF CORRECTIONS  
FISCAL YEAR 2002**

Many management functions of the Missouri state fleet are decentralized. Day-to-day decisions and record keeping tasks are performed by each agency. Therefore, the operations data used to generate this table were provided by the Missouri state agencies that use on-road and off-road motor vehicles to accomplish their official duties.

**ELIGIBLE VEHICLES**

Eligible vehicles include only those vehicles that are eligible to meet vehicle fuel efficiency and alternative fuel requirements specified in RSMo 414.400-414.417. At-the-pump units are cubic feet for CNG; kwh for electric; and gallons for gasoline, diesel, E85 and propane.

Vehicle Type	Description	Number of Vehicles	Miles Traveled	Fuel Consumption (at-the-pump units)		Cost		
				Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel	Maintenance
Gasoline	Cars and Station Wagons	62	768,411	34,663		\$43,329		\$21,395
Gasoline	Light Duty Trucks, Vans and SUVs	59	653,133	37,712		\$47,140		\$17,449
Diesel	Light Duty Vehicles, Not Otherwise Exempted	0	0	0		\$0		\$0
E85	E85 Flex Fuel Vehicles	7	89,573	2,551	1,279	\$3,189	\$1,663	\$2,845
CNG	Dual Fuel and Dedicated CNG Vehicles	0	0	0	0	\$0	\$0	\$0
Propane	Dual Fuel and Dedicated Propane Vehicles	19	348,050	16,768	6,584	\$20,960	\$5,042	\$6,064
Electric	Dedicated Electric Vehicles	0	0		0		\$0	\$0

**EXEMPT VEHICLES**

Exempt vehicles are those vehicles that for reasons given in RSMo 414.400 - 414.417 are exempt from vehicle fuel efficiency and alternative fuel requirements. Agencies unable to provide complete operating data on exempt vehicles include the Attorney General's Office, Central Missouri State University and the Department of Public Safety. As reported by the agencies, some or all vehicle operating data are not shown for less than 3 percent of all exempt vehicles operated by the state.

Motor Fuel	Number of Vehicles		Fuel Consumption (gallons)	Cost	
	<= 8500 lbs	> 8500 lbs		Motor Fuel	Maintenance
Gasoline	569	1	407,324	\$509,155	\$189,871
Diesel	0	39	66,880	\$80,256	\$9,321
B100			0	\$0	

System Query Date: Monday, March 31, 2003

**SUMMARY TABLE  
VEHICLE OPERATIONS**

**DEPARTMENT OF ECONOMIC DEVELOPMENT  
FISCAL YEAR 2002**

Many management functions of the Missouri state fleet are decentralized. Day-to-day decisions and record keeping tasks are performed by each agency. Therefore, the operations data used to generate this table were provided by the Missouri state agencies that use on-road and off-road motor vehicles to accomplish their official duties.

**ELIGIBLE VEHICLES**

Eligible vehicles include only those vehicles that are eligible to meet vehicle fuel efficiency and alternative fuel requirements specified in RSMo 414.400-414.417. At-the-pump units are cubic feet for CNG; kwh for electric; and gallons for gasoline, diesel, E85 and propane.

Vehicle Type	Description	Number of Vehicles	Miles Traveled	Fuel Consumption (at-the-pump units)		Cost		
				Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel	Maintenance
Gasoline	Cars and Station Wagons	67	896,296	34,902		\$40,770		\$34,000
Gasoline	Light Duty Trucks, Vans and SUVs	29	390,275	23,832		\$28,257		\$14,820
Diesel	Light Duty Vehicles, Not Otherwise Exempted	0	0	0		\$0		\$0
E85	E85 Flex Fuel Vehicles	52	562,010	20,768	4,228	\$26,019	\$5,447	\$10,086
CNG	Dual Fuel and Dedicated CNG Vehicles	0	0	0	0	\$0	\$0	\$0
Propane	Dual Fuel and Dedicated Propane Vehicles	0	0	0	0	\$0	\$0	\$0
Electric	Dedicated Electric Vehicles	0	0		0		\$0	\$0

**EXEMPT VEHICLES**

Exempt vehicles are those vehicles that for reasons given in RSMo 414.400 - 414.417 are exempt from vehicle fuel efficiency and alternative fuel requirements. Agencies unable to provide complete operating data on exempt vehicles include the Attorney General's Office, Central Missouri State University and the Department of Public Safety. As reported by the agencies, some or all vehicle operating data are not shown for less than 3 percent of all exempt vehicles operated by the state.

Motor Fuel	Number of Vehicles		Fuel Consumption (gallons)	Cost	
	<= 8500 lbs	> 8500 lbs		Motor Fuel	Maintenance
Gasoline	52	1	34,479	\$40,236	\$16,810
Diesel	0	0	0	\$0	\$0
B100			0	\$0	

System Query Date: Monday, March 31, 2003

**SUMMARY TABLE  
VEHICLE OPERATIONS**

**DEPARTMENT OF ELEMENTARY AND SECONDARY EDUCATION  
FISCAL YEAR 2002**

Many management functions of the Missouri state fleet are decentralized. Day-to-day decisions and record keeping tasks are performed by each agency. Therefore, the operations data used to generate this table were provided by the Missouri state agencies that use on-road and off-road motor vehicles to accomplish their official duties.

**ELIGIBLE VEHICLES**

Eligible vehicles include only those vehicles that are eligible to meet vehicle fuel efficiency and alternative fuel requirements specified in RSMo 414.400-414.417. At-the-pump units are cubic feet for CNG; kwh for electric; and gallons for gasoline, diesel, E85 and propane.

Vehicle Type	Description	Number of Vehicles	Miles Traveled	Fuel Consumption (at-the-pump units)		Cost		
				Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel	Maintenance
Gasoline	Cars and Station Wagons	12	128,859	4,931		\$6,024		\$0
Gasoline	Light Duty Trucks, Vans and SUVs	3	58,489	2,490		\$3,195		\$0
Diesel	Light Duty Vehicles, Not Otherwise Exempted	0	0	0		\$0		\$0
E85	E85 Flex Fuel Vehicles	11	200,982	6,882	0	\$8,406	\$0	\$0
CNG	Dual Fuel and Dedicated CNG Vehicles	0	0	0	0	\$0	\$0	\$0
Propane	Dual Fuel and Dedicated Propane Vehicles	0	0	0	0	\$0	\$0	\$0
Electric	Dedicated Electric Vehicles	0	0		0		\$0	\$0

**EXEMPT VEHICLES**

Exempt vehicles are those vehicles that for reasons given in RSMo 414.400 - 414.417 are exempt from vehicle fuel efficiency and alternative fuel requirements. Agencies unable to provide complete operating data on exempt vehicles include the Attorney General's Office, Central Missouri State University and the Department of Public Safety. As reported by the agencies, some or all vehicle operating data are not shown for less than 3 percent of all exempt vehicles operated by the state.

Motor Fuel	Number of Vehicles		Fuel Consumption (gallons)	Cost	
	<= 8500 lbs	> 8500 lbs		Motor Fuel	Maintenance
Gasoline	0	0	0	\$0	\$0
Diesel	0	0	0	\$0	\$0
B100			0	\$0	

**SUMMARY TABLE  
VEHICLE OPERATIONS**

**DEPARTMENT OF HEALTH AND SENIOR SERVICES  
FISCAL YEAR 2002**

Many management functions of the Missouri state fleet are decentralized. Day-to-day decisions and record keeping tasks are performed by each agency. Therefore, the operations data used to generate this table were provided by the Missouri state agencies that use on-road and off-road motor vehicles to accomplish their official duties.

**ELIGIBLE VEHICLES**

Eligible vehicles include only those vehicles that are eligible to meet vehicle fuel efficiency and alternative fuel requirements specified in RSMo 414.400-414.417. At-the-pump units are cubic feet for CNG; kwh for electric; and gallons for gasoline, diesel, E85 and propane.

Vehicle Type	Description	Number of Vehicles	Miles Traveled	Fuel Consumption (at-the-pump units)		Cost		
				Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel	Maintenance
Gasoline	Cars and Station Wagons	17	246,792	8,070		\$10,154		\$8,614
Gasoline	Light Duty Trucks, Vans and SUVs	11	59,360	3,750		\$4,609		\$3,138
Diesel	Light Duty Vehicles, Not Otherwise Exempted	0	0	0		\$0		\$0
E85	E85 Flex Fuel Vehicles	2	6,235	231	0	\$312	\$0	\$30
CNG	Dual Fuel and Dedicated CNG Vehicles	0	0	0	0	\$0	\$0	\$0
Propane	Dual Fuel and Dedicated Propane Vehicles	0	0	0	0	\$0	\$0	\$0
Electric	Dedicated Electric Vehicles	0	0		0		\$0	\$0

**EXEMPT VEHICLES**

Exempt vehicles are those vehicles that for reasons given in RSMo 414.400 - 414.417 are exempt from vehicle fuel efficiency and alternative fuel requirements. Agencies unable to provide complete operating data on exempt vehicles include the Attorney General's Office, Central Missouri State University and the Department of Public Safety. As reported by the agencies, some or all vehicle operating data are not shown for less than 3 percent of all exempt vehicles operated by the state.

Motor Fuel	Number of Vehicles		Fuel Consumption (gallons)	Cost	
	<= 8500 lbs	> 8500 lbs		Motor Fuel	Maintenance
Gasoline	0	2	4,047	\$4,957	\$3,793
Diesel	0	0	0	\$0	\$0
B100			0	\$0	

**SUMMARY TABLE  
VEHICLE OPERATIONS**

**DEPARTMENT OF HIGHER EDUCATION  
FISCAL YEAR 2002**

Many management functions of the Missouri state fleet are decentralized. Day-to-day decisions and record keeping tasks are performed by each agency. Therefore, the operations data used to generate this table were provided by the Missouri state agencies that use on-road and off-road motor vehicles to accomplish their official duties.

**ELIGIBLE VEHICLES**

Eligible vehicles include only those vehicles that are eligible to meet vehicle fuel efficiency and alternative fuel requirements specified in RSMo 414.400-414.417. At-the-pump units are cubic feet for CNG; kwh for electric; and gallons for gasoline, diesel, E85 and propane.

Vehicle Type	Description	Number of Vehicles	Miles Traveled	Fuel Consumption (at-the-pump units)		Cost		
				Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel	Maintenance
Gasoline	Cars and Station Wagons	3	40,978	1,567		\$1,926		\$554
Gasoline	Light Duty Trucks, Vans and SUVs	0	0	0		\$0		\$0
Diesel	Light Duty Vehicles, Not Otherwise Exempted	0	0	0		\$0		\$0
E85	E85 Flex Fuel Vehicles	7	98,285	3,615	252	\$4,557	\$334	\$2,054
CNG	Dual Fuel and Dedicated CNG Vehicles	0	0	0	0	\$0	\$0	\$0
Propane	Dual Fuel and Dedicated Propane Vehicles	0	0	0	0	\$0	\$0	\$0
Electric	Dedicated Electric Vehicles	0	0		0		\$0	\$0

**EXEMPT VEHICLES**

Exempt vehicles are those vehicles that for reasons given in RSMo 414.400 - 414.417 are exempt from vehicle fuel efficiency and alternative fuel requirements. Agencies unable to provide complete operating data on exempt vehicles include the Attorney General's Office, Central Missouri State University and the Department of Public Safety. As reported by the agencies, some or all vehicle operating data are not shown for less than 3 percent of all exempt vehicles operated by the state.

Motor Fuel	Number of Vehicles		Fuel Consumption (gallons)	Cost	
	<= 8500 lbs	> 8500 lbs		Motor Fuel	Maintenance
Gasoline	0	0	0	\$0	\$0
Diesel	0	0	0	\$0	\$0
B100			0	\$0	

**SUMMARY TABLE  
VEHICLE OPERATIONS**

**DEPARTMENT OF INSURANCE  
FISCAL YEAR 2002**

Many management functions of the Missouri state fleet are decentralized. Day-to-day decisions and record keeping tasks are performed by each agency. Therefore, the operations data used to generate this table were provided by the Missouri state agencies that use on-road and off-road motor vehicles to accomplish their official duties.

**ELIGIBLE VEHICLES**

Eligible vehicles include only those vehicles that are eligible to meet vehicle fuel efficiency and alternative fuel requirements specified in RSMo 414.400-414.417. At-the-pump units are cubic feet for CNG; kwh for electric; and gallons for gasoline, diesel, E85 and propane.

Vehicle Type	Description	Number of Vehicles	Miles Traveled	Fuel Consumption (at-the-pump units)		Cost		
				Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel	Maintenance
Gasoline	Cars and Station Wagons	3	19,295	706		\$931		\$1,345
Gasoline	Light Duty Trucks, Vans and SUVs	0	0	0		\$0		\$0
Diesel	Light Duty Vehicles, Not Otherwise Exempted	0	0	0		\$0		\$0
E85	E85 Flex Fuel Vehicles	3	61,046	2,262	0	\$2,951	0	\$2,185
CNG	Dual Fuel and Dedicated CNG Vehicles	0	0	0	0	\$0	0	\$0
Propane	Dual Fuel and Dedicated Propane Vehicles	0	0	0	0	\$0	0	\$0
Electric	Dedicated Electric Vehicles	0	0		0		0	\$0

**EXEMPT VEHICLES**

Exempt vehicles are those vehicles that for reasons given in RSMo 414.400 - 414.417 are exempt from vehicle fuel efficiency and alternative fuel requirements. Agencies unable to provide complete operating data on exempt vehicles include the Attorney General's Office, Central Missouri State University and the Department of Public Safety. As reported by the agencies, some or all vehicle operating data are not shown for less than 3 percent of all exempt vehicles operated by the state.

Motor Fuel	Number of Vehicles		Fuel Consumption (gallons)	Cost	
	<= 8500 lbs	> 8500 lbs		Motor Fuel	Maintenance
Gasoline	0	0	0	\$0	\$0
Diesel	0	0	0	\$0	\$0
B100			0	\$0	

System Query Date: Monday, March 31, 2003

**SUMMARY TABLE  
VEHICLE OPERATIONS**

**DEPARTMENT OF LABOR AND INDUSTRIAL RELATIONS  
FISCAL YEAR 2002**

Many management functions of the Missouri state fleet are decentralized. Day-to-day decisions and record keeping tasks are performed by each agency. Therefore, the operations data used to generate this table were provided by the Missouri state agencies that use on-road and off-road motor vehicles to accomplish their official duties.

**ELIGIBLE VEHICLES**

Eligible vehicles include only those vehicles that are eligible to meet vehicle fuel efficiency and alternative fuel requirements specified in RSMo 414.400-414.417. At-the-pump units are cubic feet for CNG; kwh for electric; and gallons for gasoline, diesel, E85 and propane.

Vehicle Type	Description	Number of Vehicles	Miles Traveled	Fuel Consumption (at-the-pump units)		Cost		
				Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel	Maintenance
Gasoline	Cars and Station Wagons	7	80,715	3,644		\$4,506		\$1,568
Gasoline	Light Duty Trucks, Vans and SUVs	17	217,466	11,220		\$14,125		\$4,352
Diesel	Light Duty Vehicles, Not Otherwise Exempted	0	0	0		\$0		\$0
E85	E85 Flex Fuel Vehicles	6	82,944	3,277	46	\$4,076	\$65	\$756
CNG	Dual Fuel and Dedicated CNG Vehicles	0	0	0	0	\$0	\$0	\$0
Propane	Dual Fuel and Dedicated Propane Vehicles	0	0	0	0	\$0	\$0	\$0
Electric	Dedicated Electric Vehicles	0	0		0		\$0	\$0

**EXEMPT VEHICLES**

Exempt vehicles are those vehicles that for reasons given in RSMo 414.400 - 414.417 are exempt from vehicle fuel efficiency and alternative fuel requirements. Agencies unable to provide complete operating data on exempt vehicles include the Attorney General's Office, Central Missouri State University and the Department of Public Safety. As reported by the agencies, some or all vehicle operating data are not shown for less than 3 percent of all exempt vehicles operated by the state.

Motor Fuel	Number of Vehicles		Fuel Consumption (gallons)	Cost	
	<= 8500 lbs	> 8500 lbs		Motor Fuel	Maintenance
Gasoline	0	1	791	\$977	\$526
Diesel	0	1	2,314	\$3,076	\$316
B100			0	\$0	

**SUMMARY TABLE  
VEHICLE OPERATIONS**

**DEPARTMENT OF MENTAL HEALTH  
FISCAL YEAR 2002**

Many management functions of the Missouri state fleet are decentralized. Day-to-day decisions and record keeping tasks are performed by each agency. Therefore, the operations data used to generate this table were provided by the Missouri state agencies that use on-road and off-road motor vehicles to accomplish their official duties.

**ELIGIBLE VEHICLES**

Eligible vehicles include only those vehicles that are eligible to meet vehicle fuel efficiency and alternative fuel requirements specified in RSMo 414.400-414.417. At-the-pump units are cubic feet for CNG; kwh for electric; and gallons for gasoline, diesel, E85 and propane.

Vehicle Type	Description	Number of Vehicles	Miles Traveled	Fuel Consumption (at-the-pump units)		Cost		
				Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel	Maintenance
Gasoline	Cars and Station Wagons	305	3,089,331	131,695		\$164,479		\$109,794
Gasoline	Light Duty Trucks, Vans and SUVs	230	1,776,705	106,509		\$123,607		\$97,850
Diesel	Light Duty Vehicles, Not Otherwise Exempted	2	26,486	2,598		\$3,230		\$115
E85	E85 Flex Fuel Vehicles	110	1,607,278	63,801	1,155	\$75,321	\$1,500	\$48,976
CNG	Dual Fuel and Dedicated CNG Vehicles	0	0	0	0	\$0	\$0	\$0
Propane	Dual Fuel and Dedicated Propane Vehicles	0	0	0	0	\$0	\$0	\$0
Electric	Dedicated Electric Vehicles	0	0	0	0	\$0	\$0	\$0

**EXEMPT VEHICLES**

Exempt vehicles are those vehicles that for reasons given in RSMo 414.400 - 414.417 are exempt from vehicle fuel efficiency and alternative fuel requirements. Agencies unable to provide complete operating data on exempt vehicles include the Attorney General's Office, Central Missouri State University and the Department of Public Safety. As reported by the agencies, some or all vehicle operating data are not shown for less than 3 percent of all exempt vehicles operated by the state.

Motor Fuel	Number of Vehicles		Fuel Consumption (gallons)	Cost	
	<= 8500 lbs	> 8500 lbs		Motor Fuel	Maintenance
Gasoline	155	87	75,995	\$80,218	\$69,435
Diesel	0	16	9,693	\$8,508	\$7,197
B100			0	\$0	

System Query Date: Monday, March 31, 2003

**SUMMARY TABLE  
VEHICLE OPERATIONS**

**DEPARTMENT OF NATURAL RESOURCES  
FISCAL YEAR 2002**

Many management functions of the Missouri state fleet are decentralized. Day-to-day decisions and record keeping tasks are performed by each agency. Therefore, the operations data used to generate this table were provided by the Missouri state agencies that use on-road and off-road motor vehicles to accomplish their official duties.

**ELIGIBLE VEHICLES**

Eligible vehicles include only those vehicles that are eligible to meet vehicle fuel efficiency and alternative fuel requirements specified in RSMo 414.400-414.417. At-the-pump units are cubic feet for CNG; kwh for electric; and gallons for gasoline, diesel, E85 and propane.

Vehicle Type	Description	Number of Vehicles	Miles Traveled	Fuel Consumption (at-the-pump units)		Cost		
				Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel	Maintenance
Gasoline	Cars and Station Wagons	60	797,776	27,675		\$33,426		\$18,431
Gasoline	Light Duty Trucks, Vans and SUVs	178	2,196,070	124,658		\$149,065		\$75,008
Diesel	Light Duty Vehicles, Not Otherwise Exempted	3	57,241	4,207		\$4,317		\$442
E85	E85 Flex Fuel Vehicles	110	1,900,767	61,988	16,844	\$74,201	\$23,474	\$44,162
CNG	Dual Fuel and Dedicated CNG Vehicles	12	119,259	3,136	174,931	\$3,850	\$1,458	\$3,714
Propane	Dual Fuel and Dedicated Propane Vehicles	44	416,899	23,260	6,581	\$25,446	\$7,046	\$19,793
Electric	Dedicated Electric Vehicles	1	5,315		2,179		\$174	\$0

**EXEMPT VEHICLES**

Exempt vehicles are those vehicles that for reasons given in RSMo 414.400 - 414.417 are exempt from vehicle fuel efficiency and alternative fuel requirements. Agencies unable to provide complete operating data on exempt vehicles include the Attorney General's Office, Central Missouri State University and the Department of Public Safety. As reported by the agencies, some or all vehicle operating data are not shown for less than 3 percent of all exempt vehicles operated by the state.

Motor Fuel	Number of Vehicles		Fuel Consumption (gallons)	Cost	
	<= 8500 lbs	> 8500 lbs		Motor Fuel	Maintenance
Gasoline	180	118	229,934	\$259,374	\$113,851
Diesel	0	46	36,571	\$38,594	\$19,349
B100			472	\$518	

**SUMMARY TABLE  
VEHICLE OPERATIONS**

**DEPARTMENT OF PUBLIC SAFETY  
FISCAL YEAR 2002**

Many management functions of the Missouri state fleet are decentralized. Day-to-day decisions and record keeping tasks are performed by each agency. Therefore, the operations data used to generate this table were provided by the Missouri state agencies that use on-road and off-road motor vehicles to accomplish their official duties.

**ELIGIBLE VEHICLES**

Eligible vehicles include only those vehicles that are eligible to meet vehicle fuel efficiency and alternative fuel requirements specified in RSMo 414.400-414.417. At-the-pump units are cubic feet for CNG; kwh for electric; and gallons for gasoline, diesel, E85 and propane.

Vehicle Type	Description	Number of Vehicles	Miles Traveled	Fuel Consumption (at-the-pump units)		Cost		
				Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel	Maintenance
Gasoline	Cars and Station Wagons	51	793,027	31,462		\$39,450		\$27,468
Gasoline	Light Duty Trucks, Vans and SUVs	49	446,070	25,696		\$32,045		\$9,809
Diesel	Light Duty Vehicles, Not Otherwise Exempted	1	1,046	86		\$110		\$0
E85	E85 Flex Fuel Vehicles	26	438,837	18,653	355	\$23,723	\$413	\$10,186
CNG	Dual Fuel and Dedicated CNG Vehicles	0	0	0	0	\$0	\$0	\$0
Propane	Dual Fuel and Dedicated Propane Vehicles	0	0	0	0	\$0	\$0	\$0
Electric	Dedicated Electric Vehicles	0	0		0		\$0	\$0

**EXEMPT VEHICLES**

Exempt vehicles are those vehicles that for reasons given in RSMo 414.400 - 414.417 are exempt from vehicle fuel efficiency and alternative fuel requirements. Agencies unable to provide complete operating data on exempt vehicles include the Attorney General's Office, Central Missouri State University and the Department of Public Safety. As reported by the agencies, some or all vehicle operating data are not shown for less than 3 percent of all exempt vehicles operated by the state.

Motor Fuel	Number of Vehicles		Fuel Consumption (gallons)	Cost	
	<= 8500 lbs	> 8500 lbs		Motor Fuel	Maintenance
Gasoline	1,352	67	1,717,114	\$1,773,736	\$388,482
Diesel	6	1	5,059	\$6,790	\$3,821
B100			0	\$0	

System Query Date: Monday, March 31, 2003

**SUMMARY TABLE  
VEHICLE OPERATIONS**

**DEPARTMENT OF REVENUE  
FISCAL YEAR 2002**

Many management functions of the Missouri state fleet are decentralized. Day-to-day decisions and record keeping tasks are performed by each agency. Therefore, the operations data used to generate this table were provided by the Missouri state agencies that use on-road and off-road motor vehicles to accomplish their official duties.

**ELIGIBLE VEHICLES**

Eligible vehicles include only those vehicles that are eligible to meet vehicle fuel efficiency and alternative fuel requirements specified in RSMo 414.400-414.417. At-the-pump units are cubic feet for CNG; kwh for electric; and gallons for gasoline, diesel, E85 and propane.

Vehicle Type	Description	Number of Vehicles	Miles Traveled	Fuel Consumption (at-the-pump units)		Cost		
				Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel	Maintenance
Gasoline	Cars and Station Wagons	4	56,613	2,233		\$2,406		\$3,313
Gasoline	Light Duty Trucks, Vans and SUVs	13	184,941	9,457		\$9,835		\$8,012
Diesel	Light Duty Vehicles, Not Otherwise Exempted	0	0	0		\$0		\$0
E85	E85 Flex Fuel Vehicles	40	649,971	24,421	1,436	\$25,668	\$2,111	\$13,602
CNG	Dual Fuel and Dedicated CNG Vehicles	0	0	0	0	\$0	\$0	\$0
Propane	Dual Fuel and Dedicated Propane Vehicles	0	0	0	0	\$0	\$0	\$0
Electric	Dedicated Electric Vehicles	0	0		0		\$0	\$0

**EXEMPT VEHICLES**

Exempt vehicles are those vehicles that for reasons given in RSMo 414.400 - 414.417 are exempt from vehicle fuel efficiency and alternative fuel requirements. Agencies unable to provide complete operating data on exempt vehicles include the Attorney General's Office, Central Missouri State University and the Department of Public Safety. As reported by the agencies, some or all vehicle operating data are not shown for less than 3 percent of all exempt vehicles operated by the state.

Motor Fuel	Number of Vehicles		Fuel Consumption (gallons)	Cost	
	<= 8500 lbs	> 8500 lbs		Motor Fuel	Maintenance
Gasoline	0	2	3,340	\$3,520	\$2,449
Diesel	0	0	0	\$0	\$0
B100			0	\$0	

System Query Date: Monday, March 31, 2003

**SUMMARY TABLE  
VEHICLE OPERATIONS**

**DEPARTMENT OF SOCIAL SERVICES  
FISCAL YEAR 2002**

Many management functions of the Missouri state fleet are decentralized. Day-to-day decisions and record keeping tasks are performed by each agency. Therefore, the operations data used to generate this table were provided by the Missouri state agencies that use on-road and off-road motor vehicles to accomplish their official duties.

**ELIGIBLE VEHICLES**

Eligible vehicles include only those vehicles that are eligible to meet vehicle fuel efficiency and alternative fuel requirements specified in RSMo 414.400-414.417. At-the-pump units are cubic feet for CNG; kwh for electric; and gallons for gasoline, diesel, E85 and propane.

Vehicle Type	Description	Number of Vehicles	Miles Traveled	Fuel Consumption (at-the-pump units)		Cost		
				Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel	Maintenance
Gasoline	Cars and Station Wagons	86	1,153,203	41,711		\$51,130		\$42,491
Gasoline	Light Duty Trucks, Vans and SUVs	54	569,262	29,385		\$35,832		\$25,407
Diesel	Light Duty Vehicles, Not Otherwise Exempted	0	0	0		\$0		\$0
E85	E85 Flex Fuel Vehicles	66	975,005	35,157	1,573	\$43,919	\$2,092	\$28,387
CNG	Dual Fuel and Dedicated CNG Vehicles	0	0	0	0	\$0	\$0	\$0
Propane	Dual Fuel and Dedicated Propane Vehicles	0	0	0	0	\$0	\$0	\$0
Electric	Dedicated Electric Vehicles	0	0		0		\$0	\$0

**EXEMPT VEHICLES**

Exempt vehicles are those vehicles that for reasons given in RSMo 414.400 - 414.417 are exempt from vehicle fuel efficiency and alternative fuel requirements. Agencies unable to provide complete operating data on exempt vehicles include the Attorney General's Office, Central Missouri State University and the Department of Public Safety. As reported by the agencies, some or all vehicle operating data are not shown for less than 3 percent of all exempt vehicles operated by the state.

Motor Fuel	Number of Vehicles		Fuel Consumption (gallons)	Cost	
	<= 8500 lbs	> 8500 lbs		Motor Fuel	Maintenance
Gasoline	154	110	169,691	\$207,802	\$173,144
Diesel	0	0	0	\$0	\$0
B100			0	\$0	

**SUMMARY TABLE  
VEHICLE OPERATIONS**

**DEPARTMENT OF TRANSPORTATION  
FISCAL YEAR 2002**

Many management functions of the Missouri state fleet are decentralized. Day-to-day decisions and record keeping tasks are performed by each agency. Therefore, the operations data used to generate this table were provided by the Missouri state agencies that use on-road and off-road motor vehicles to accomplish their official duties.

**ELIGIBLE VEHICLES**

Eligible vehicles include only those vehicles that are eligible to meet vehicle fuel efficiency and alternative fuel requirements specified in RSMo 414.400-414.417. At-the-pump units are cubic feet for CNG; kwh for electric; and gallons for gasoline, diesel, E85 and propane.

Vehicle Type	Description	Number of Vehicles	Miles Traveled	Fuel Consumption (at-the-pump units)		Cost		
				Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel	Maintenance
Gasoline	Cars and Station Wagons	107	1,306,389	56,126		\$41,823		\$16,897
Gasoline	Light Duty Trucks, Vans and SUVs	85	998,195	60,912		\$46,353		\$26,101
Diesel	Light Duty Vehicles, Not Otherwise Exempted	0	0	0		\$0		\$0
E85	E85 Flex Fuel Vehicles	79	1,148,637	27,605	19,331	\$19,507	\$15,201	\$12,370
CNG	Dual Fuel and Dedicated CNG Vehicles	23	618,577	28,992	1,505,287	\$28,869	\$13,200	\$25,045
Propane	Dual Fuel and Dedicated Propane Vehicles	0	0	0	0	\$0	\$0	\$0
Electric	Dedicated Electric Vehicles	0	0		0		\$0	\$0

**EXEMPT VEHICLES**

Exempt vehicles are those vehicles that for reasons given in RSMo 414.400 - 414.417 are exempt from vehicle fuel efficiency and alternative fuel requirements. Agencies unable to provide complete operating data on exempt vehicles include the Attorney General's Office, Central Missouri State University and the Department of Public Safety. As reported by the agencies, some or all vehicle operating data are not shown for less than 3 percent of all exempt vehicles operated by the state.

Motor Fuel	Number of Vehicles		Fuel Consumption (gallons)	Cost	
	<= 8500 lbs	> 8500 lbs		Motor Fuel	Maintenance
Gasoline	794	330	2,069,646	\$1,526,053	\$641,351
Diesel	0	1,953	2,272,487	\$2,031,006	\$2,324,620
B100			54,952	\$59,089	

System Query Date: Monday, March 31, 2003

**SUMMARY TABLE  
VEHICLE OPERATIONS**

**OFFICE OF ADMINISTRATION  
FISCAL YEAR 2002**

Many management functions of the Missouri state fleet are decentralized. Day-to-day decisions and record keeping tasks are performed by each agency. Therefore, the operations data used to generate this table were provided by the Missouri state agencies that use on-road and off-road motor vehicles to accomplish their official duties.

**ELIGIBLE VEHICLES**

Eligible vehicles include only those vehicles that are eligible to meet vehicle fuel efficiency and alternative fuel requirements specified in RSMo 414.400-414.417. At-the-pump units are cubic feet for CNG; kwh for electric; and gallons for gasoline, diesel, E85 and propane.

Vehicle Type	Description	Number of Vehicles	Miles Traveled	Fuel Consumption (at-the-pump units)		Cost		
				Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel	Maintenance
Gasoline	Cars and Station Wagons	17	102,610	4,083		\$5,014		\$2,222
Gasoline	Light Duty Trucks, Vans and SUVs	66	373,187	24,886		\$30,720		\$20,432
Diesel	Light Duty Vehicles, Not Otherwise Exempted	0	0	0		\$0		\$0
E85	E85 Flex Fuel Vehicles	47	815,730	23,842	9,749	\$29,597	\$12,873	\$21,092
CNG	Dual Fuel and Dedicated CNG Vehicles	0	0	0	0	\$0	\$0	\$0
Propane	Dual Fuel and Dedicated Propane Vehicles	0	0	0	0	\$0	\$0	\$0
Electric	Dedicated Electric Vehicles	0	0		0		\$0	\$0

**EXEMPT VEHICLES**

Exempt vehicles are those vehicles that for reasons given in RSMo 414.400 - 414.417 are exempt from vehicle fuel efficiency and alternative fuel requirements. Agencies unable to provide complete operating data on exempt vehicles include the Attorney General's Office, Central Missouri State University and the Department of Public Safety. As reported by the agencies, some or all vehicle operating data are not shown for less than 3 percent of all exempt vehicles operated by the state.

Motor Fuel	Number of Vehicles		Fuel Consumption (gallons)	Cost	
	<= 8500 lbs	> 8500 lbs		Motor Fuel	Maintenance
Gasoline	1	1	3,449	\$4,325	\$8,699
Diesel	0	4	19,872	\$24,170	\$5,040
B100			0	\$0	

**SUMMARY TABLE  
VEHICLE OPERATIONS**

**CENTRAL MISSOURI STATE UNIVERSITY  
FISCAL YEAR 2002**

Many management functions of the Missouri state fleet are decentralized. Day-to-day decisions and record keeping tasks are performed by each agency. Therefore, the operations data used to generate this table were provided by the Missouri state agencies that use on-road and off-road motor vehicles to accomplish their official duties.

**ELIGIBLE VEHICLES**

Eligible vehicles include only those vehicles that are eligible to meet vehicle fuel efficiency and alternative fuel requirements specified in RSMo 414.400-414.417. At-the-pump units are cubic feet for CNG; kwh for electric; and gallons for gasoline, diesel, E85 and propane.

Vehicle Type	Description	Number of Vehicles	Miles Traveled	Fuel Consumption (at-the-pump units)		Cost		
				Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel	Maintenance
Gasoline	Cars and Station Wagons	5	27,105	1,455		\$1,673		\$2,216
Gasoline	Light Duty Trucks, Vans and SUVs	8	42,995	3,644		\$4,191		\$1,431
Diesel	Light Duty Vehicles, Not Otherwise Exempted	4	32,439	2,703		\$3,233		\$2,460
E85	E85 Flex Fuel Vehicles	0	0	0	0	\$0	\$0	\$0
CNG	Dual Fuel and Dedicated CNG Vehicles	0	0	0	0	\$0	\$0	\$0
Propane	Dual Fuel and Dedicated Propane Vehicles	4	14,840	0	742	\$0	\$668	\$322
Electric	Dedicated Electric Vehicles	0	0		0		\$0	\$0

**EXEMPT VEHICLES**

Exempt vehicles are those vehicles that for reasons given in RSMo 414.400 - 414.417 are exempt from vehicle fuel efficiency and alternative fuel requirements. Agencies unable to provide complete operating data on exempt vehicles include the Attorney General's Office, Central Missouri State University and the Department of Public Safety. As reported by the agencies, some or all vehicle operating data are not shown for less than 3 percent of all exempt vehicles operated by the state.

Motor Fuel	Number of Vehicles		Fuel Consumption (gallons)	Cost	
	<= 8500 lbs	> 8500 lbs		Motor Fuel	Maintenance
Gasoline	104	9	245	\$282	\$720
Diesel	3	2	0	\$0	\$0
B100			0	\$0	

System Query Date: Monday, March 31, 2003

**SUMMARY TABLE  
VEHICLE OPERATIONS**

**HARRIS-STOWE STATE COLLEGE  
FISCAL YEAR 2002**

Many management functions of the Missouri state fleet are decentralized. Day-to-day decisions and record keeping tasks are performed by each agency. Therefore, the operations data used to generate this table were provided by the Missouri state agencies that use on-road and off-road motor vehicles to accomplish their official duties.

**ELIGIBLE VEHICLES**

Eligible vehicles include only those vehicles that are eligible to meet vehicle fuel efficiency and alternative fuel requirements specified in RSMo 414.400-414.417. At-the-pump units are cubic feet for CNG; kwh for electric; and gallons for gasoline, diesel, E85 and propane.

Vehicle Type	Description	Number of Vehicles	Miles Traveled	Fuel Consumption (at-the-pump units)		Cost		
				Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel	Maintenance
Gasoline	Cars and Station Wagons	2	20,000	2,400		\$3,600		\$1,805
Gasoline	Light Duty Trucks, Vans and SUVs	3	30,000	5,400		\$8,100		\$1,024
Diesel	Light Duty Vehicles, Not Otherwise Exempted	0	0	0		\$0		\$0
E85	E85 Flex Fuel Vehicles	0	0	0	0	\$0	\$0	\$0
CNG	Dual Fuel and Dedicated CNG Vehicles	0	0	0	0	\$0	\$0	\$0
Propane	Dual Fuel and Dedicated Propane Vehicles	0	0	0	0	\$0	\$0	\$0
Electric	Dedicated Electric Vehicles	0	0		0		\$0	\$0

**EXEMPT VEHICLES**

Exempt vehicles are those vehicles that for reasons given in RSMo 414.400 - 414.417 are exempt from vehicle fuel efficiency and alternative fuel requirements. Agencies unable to provide complete operating data on exempt vehicles include the Attorney General's Office, Central Missouri State University and the Department of Public Safety. As reported by the agencies, some or all vehicle operating data are not shown for less than 3 percent of all exempt vehicles operated by the state.

Motor Fuel	Number of Vehicles		Fuel Consumption (gallons)	Cost	
	<= 8500 lbs	> 8500 lbs		Motor Fuel	Maintenance
Gasoline	0	0	0	\$0	\$0
Diesel	0	0	0	\$0	\$0
B100			0	\$0	

System Query Date: Monday, March 31, 2003

**SUMMARY TABLE  
VEHICLE OPERATIONS**

**LINCOLN UNIVERSITY  
FISCAL YEAR 2002**

Many management functions of the Missouri state fleet are decentralized. Day-to-day decisions and record keeping tasks are performed by each agency. Therefore, the operations data used to generate this table were provided by the Missouri state agencies that use on-road and off-road motor vehicles to accomplish their official duties.

**ELIGIBLE VEHICLES**

Eligible vehicles include only those vehicles that are eligible to meet vehicle fuel efficiency and alternative fuel requirements specified in RSMo 414.400-414.417. At-the-pump units are cubic feet for CNG; kwh for electric; and gallons for gasoline, diesel, E85 and propane.

Vehicle Type	Description	Number of Vehicles	Miles Traveled	Fuel Consumption (at-the-pump units)		Cost		
				Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel	Maintenance
Gasoline	Cars and Station Wagons	2	26,183	300		\$324		\$736
Gasoline	Light Duty Trucks, Vans and SUVs	2	26,501	1,094		\$1,173		\$1,194
Diesel	Light Duty Vehicles, Not Otherwise Exempted	0	0	0		\$0		\$0
E85	E85 Flex Fuel Vehicles	0	0	0	0	\$0	\$0	\$0
CNG	Dual Fuel and Dedicated CNG Vehicles	0	0	0	0	\$0	\$0	\$0
Propane	Dual Fuel and Dedicated Propane Vehicles	0	0	0	0	\$0	\$0	\$0
Electric	Dedicated Electric Vehicles	0	0	0	0	\$0	\$0	\$0

**EXEMPT VEHICLES**

Exempt vehicles are those vehicles that for reasons given in RSMo 414.400 - 414.417 are exempt from vehicle fuel efficiency and alternative fuel requirements. Agencies unable to provide complete operating data on exempt vehicles include the Attorney General's Office, Central Missouri State University and the Department of Public Safety. As reported by the agencies, some or all vehicle operating data are not shown for less than 3 percent of all exempt vehicles operated by the state.

Motor Fuel	Number of Vehicles		Fuel Consumption (gallons)	Cost	
	<= 8500 lbs	> 8500 lbs		Motor Fuel	Maintenance
Gasoline	26	3	7,623	\$8,026	\$8,694
Diesel	0	1	879	\$1,265	\$306
B100			0	\$0	

System Query Date: Monday, March 31, 2003

**SUMMARY TABLE  
VEHICLE OPERATIONS**

**MISSOURI SOUTHERN STATE COLLEGE  
FISCAL YEAR 2002**

Many management functions of the Missouri state fleet are decentralized. Day-to-day decisions and record keeping tasks are performed by each agency. Therefore, the operations data used to generate this table were provided by the Missouri state agencies that use on-road and off-road motor vehicles to accomplish their official duties.

**ELIGIBLE VEHICLES**

Eligible vehicles include only those vehicles that are eligible to meet vehicle fuel efficiency and alternative fuel requirements specified in RSMo 414.400-414.417. At-the-pump units are cubic feet for CNG; kwh for electric; and gallons for gasoline, diesel, E85 and propane.

Vehicle Type	Description	Number of Vehicles	Miles Traveled	Fuel Consumption (at-the-pump units)		Cost		
				Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel	Maintenance
Gasoline	Cars and Station Wagons	9	113,704	5,472		\$6,566		\$0
Gasoline	Light Duty Trucks, Vans and SUVs	0	0	0		\$0		\$0
Diesel	Light Duty Vehicles, Not Otherwise Exempted	0	0	0		\$0		\$0
E85	E85 Flex Fuel Vehicles	0	0	0	0	\$0	\$0	\$0
CNG	Dual Fuel and Dedicated CNG Vehicles	0	0	0	0	\$0	\$0	\$0
Propane	Dual Fuel and Dedicated Propane Vehicles	0	0	0	0	\$0	\$0	\$0
Electric	Dedicated Electric Vehicles	0	0		0		\$0	\$0

**EXEMPT VEHICLES**

Exempt vehicles are those vehicles that for reasons given in RSMo 414.400 - 414.417 are exempt from vehicle fuel efficiency and alternative fuel requirements. Agencies unable to provide complete operating data on exempt vehicles include the Attorney General's Office, Central Missouri State University and the Department of Public Safety. As reported by the agencies, some or all vehicle operating data are not shown for less than 3 percent of all exempt vehicles operated by the state.

Motor Fuel	Number of Vehicles		Fuel Consumption (gallons)	Cost	
	<= 8500 lbs	> 8500 lbs		Motor Fuel	Maintenance
Gasoline	15	11	9,537	\$8,869	\$0
Diesel	0	1	1,128	\$902	\$0
B100			0	\$0	

System Query Date: Monday, March 31, 2003

**SUMMARY TABLE  
VEHICLE OPERATIONS**

**MISSOURI WESTERN STATE COLLEGE  
FISCAL YEAR 2002**

Many management functions of the Missouri state fleet are decentralized. Day-to-day decisions and record keeping tasks are performed by each agency. Therefore, the operations data used to generate this table were provided by the Missouri state agencies that use on-road and off-road motor vehicles to accomplish their official duties.

**ELIGIBLE VEHICLES**

Eligible vehicles include only those vehicles that are eligible to meet vehicle fuel efficiency and alternative fuel requirements specified in RSMo 414.400-414.417. At-the-pump units are cubic feet for CNG; kwh for electric; and gallons for gasoline, diesel, E85 and propane.

Vehicle Type	Description	Number of Vehicles	Miles Traveled	Fuel Consumption (at-the-pump units)		Cost		
				Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel	Maintenance
Gasoline	Cars and Station Wagons	0	0	0		\$0		\$0
Gasoline	Light Duty Trucks, Vans and SUVs	0	0	0		\$0		\$0
Diesel	Light Duty Vehicles, Not Otherwise Exempted	0	0	0		\$0		\$0
E85	E85 Flex Fuel Vehicles	0	0	0	0	\$0	\$0	\$0
CNG	Dual Fuel and Dedicated CNG Vehicles	0	0	0	0	\$0	\$0	\$0
Propane	Dual Fuel and Dedicated Propane Vehicles	0	0	0	0	\$0	\$0	\$0
Electric	Dedicated Electric Vehicles	0	0		0		\$0	\$0

**EXEMPT VEHICLES**

Exempt vehicles are those vehicles that for reasons given in RSMo 414.400 - 414.417 are exempt from vehicle fuel efficiency and alternative fuel requirements. Agencies unable to provide complete operating data on exempt vehicles include the Attorney General's Office, Central Missouri State University and the Department of Public Safety. As reported by the agencies, some or all vehicle operating data are not shown for less than 3 percent of all exempt vehicles operated by the state.

Motor Fuel	Number of Vehicles		Fuel Consumption (gallons)	Cost	
	<= 8500 lbs	> 8500 lbs		Motor Fuel	Maintenance
Gasoline	22	0	9,819	\$11,782	\$5,549
Diesel	0	5	5,363	\$5,823	\$8,648
B100			0	\$0	

System Query Date: Monday, March 31, 2003

**SUMMARY TABLE  
VEHICLE OPERATIONS**

**NORTHWEST MISSOURI UNIVERSITY  
FISCAL YEAR 2002**

Many management functions of the Missouri state fleet are decentralized. Day-to-day decisions and record keeping tasks are performed by each agency. Therefore, the operations data used to generate this table were provided by the Missouri state agencies that use on-road and off-road motor vehicles to accomplish their official duties.

**ELIGIBLE VEHICLES**

Eligible vehicles include only those vehicles that are eligible to meet vehicle fuel efficiency and alternative fuel requirements specified in RSMo 414.400-414.417. At-the-pump units are cubic feet for CNG; kwh for electric; and gallons for gasoline, diesel, E85 and propane.

Vehicle Type	Description	Number of Vehicles	Miles Traveled	Fuel Consumption (at-the-pump units)		Cost		
				Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel	Maintenance
Gasoline	Cars and Station Wagons	14	196,854	6,242		\$7,513		\$1,977
Gasoline	Light Duty Trucks, Vans and SUVs	14	119,391	9,947		\$11,898		\$9,918
Diesel	Light Duty Vehicles, Not Otherwise Exempted	0	0	0		\$0		\$0
E85	E85 Flex Fuel Vehicles	12	140,217	5,173	0	\$6,160	\$0	\$1,173
CNG	Dual Fuel and Dedicated CNG Vehicles	0	0	0	0	\$0	\$0	\$0
Propane	Dual Fuel and Dedicated Propane Vehicles	0	0	0	0	\$0	\$0	\$0
Electric	Dedicated Electric Vehicles	0	0		0		\$0	\$0

**EXEMPT VEHICLES**

Exempt vehicles are those vehicles that for reasons given in RSMo 414.400 - 414.417 are exempt from vehicle fuel efficiency and alternative fuel requirements. Agencies unable to provide complete operating data on exempt vehicles include the Attorney General's Office, Central Missouri State University and the Department of Public Safety. As reported by the agencies, some or all vehicle operating data are not shown for less than 3 percent of all exempt vehicles operated by the state.

Motor Fuel	Number of Vehicles		Fuel Consumption (gallons)	Cost	
	<= 8500 lbs	> 8500 lbs		Motor Fuel	Maintenance
Gasoline	51	16	23,420	\$25,762	\$25,585
Diesel	1	12	34,017	\$38,439	\$30,075
B100			3,508	\$4,104	

**SUMMARY TABLE  
VEHICLE OPERATIONS**

**SOUTHEAST MISSOURI STATE UNIVERSITY  
FISCAL YEAR 2002**

Many management functions of the Missouri state fleet are decentralized. Day-to-day decisions and record keeping tasks are performed by each agency. Therefore, the operations data used to generate this table were provided by the Missouri state agencies that use on-road and off-road motor vehicles to accomplish their official duties.

**ELIGIBLE VEHICLES**

Eligible vehicles include only those vehicles that are eligible to meet vehicle fuel efficiency and alternative fuel requirements specified in RSMo 414.400-414.417. At-the-pump units are cubic feet for CNG; kwh for electric; and gallons for gasoline, diesel, E85 and propane.

Vehicle Type	Description	Number of Vehicles	Miles Traveled	Fuel Consumption (at-the-pump units)		Cost		
				Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel	Maintenance
Gasoline	Cars and Station Wagons	0	0	0		\$0		\$0
Gasoline	Light Duty Trucks, Vans and SUVs	0	0	0		\$0		\$0
Diesel	Light Duty Vehicles, Not Otherwise Exempted	0	0	0		\$0		\$0
E85	E85 Flex Fuel Vehicles	0	0	0	0	\$0	\$0	\$0
CNG	Dual Fuel and Dedicated CNG Vehicles	0	0	0	0	\$0	\$0	\$0
Propane	Dual Fuel and Dedicated Propane Vehicles	0	0	0	0	\$0	\$0	\$0
Electric	Dedicated Electric Vehicles	0	0		0		\$0	\$0

**EXEMPT VEHICLES**

Exempt vehicles are those vehicles that for reasons given in RSMo 414.400 - 414.417 are exempt from vehicle fuel efficiency and alternative fuel requirements. Agencies unable to provide complete operating data on exempt vehicles include the Attorney General's Office, Central Missouri State University and the Department of Public Safety. As reported by the agencies, some or all vehicle operating data are not shown for less than 3 percent of all exempt vehicles operated by the state.

Motor Fuel	Number of Vehicles		Fuel Consumption (gallons)	Cost	
	<= 8500 lbs	> 8500 lbs		Motor Fuel	Maintenance
Gasoline	138	6	41,930	\$48,605	\$85,342
Diesel	0	0	0	\$0	\$0
B100			0	\$0	

System Query Date: Monday, March 31, 2003

**SUMMARY TABLE  
VEHICLE OPERATIONS**

**SOUTHWEST MISSOURI STATE UNIVERSITY  
FISCAL YEAR 2002**

Many management functions of the Missouri state fleet are decentralized. Day-to-day decisions and record keeping tasks are performed by each agency. Therefore, the operations data used to generate this table were provided by the Missouri state agencies that use on-road and off-road motor vehicles to accomplish their official duties.

**ELIGIBLE VEHICLES**

Eligible vehicles include only those vehicles that are eligible to meet vehicle fuel efficiency and alternative fuel requirements specified in RSMo 414.400-414.417. At-the-pump units are cubic feet for CNG; kwh for electric; and gallons for gasoline, diesel, E85 and propane.

Vehicle Type	Description	Number of Vehicles	Miles Traveled	Fuel Consumption (at-the-pump units)		Cost		
				Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel	Maintenance
Gasoline	Cars and Station Wagons	2	3,488	148		\$192		\$383
Gasoline	Light Duty Trucks, Vans and SUVs	27	163,350	8,950		\$12,186		\$5,164
Diesel	Light Duty Vehicles, Not Otherwise Exempted	1	13,074	742		\$942		\$191
E85	E85 Flex Fuel Vehicles	0	0	0	0	\$0	\$0	\$0
CNG	Dual Fuel and Dedicated CNG Vehicles	0	0	0	0	\$0	\$0	\$0
Propane	Dual Fuel and Dedicated Propane Vehicles	0	0	0	0	\$0	\$0	\$0
Electric	Dedicated Electric Vehicles	0	0	0	0	\$0	\$0	\$0

**EXEMPT VEHICLES**

Exempt vehicles are those vehicles that for reasons given in RSMo 414.400 - 414.417 are exempt from vehicle fuel efficiency and alternative fuel requirements. Agencies unable to provide complete operating data on exempt vehicles include the Attorney General's Office, Central Missouri State University and the Department of Public Safety. As reported by the agencies, some or all vehicle operating data are not shown for less than 3 percent of all exempt vehicles operated by the state.

Motor Fuel	Number of Vehicles		Fuel Consumption (gallons)	Cost	
	<= 8500 lbs	> 8500 lbs		Motor Fuel	Maintenance
Gasoline	87	1	52,038	\$68,042	\$16,832
Diesel	8	0	2,114	\$2,815	\$1,530
B100			0	\$0	

**SUMMARY TABLE  
VEHICLE OPERATIONS**

**TRUMAN STATE UNIVERSITY  
FISCAL YEAR 2002**

Many management functions of the Missouri state fleet are decentralized. Day-to-day decisions and record keeping tasks are performed by each agency. Therefore, the operations data used to generate this table were provided by the Missouri state agencies that use on-road and off-road motor vehicles to accomplish their official duties.

**ELIGIBLE VEHICLES**

Eligible vehicles include only those vehicles that are eligible to meet vehicle fuel efficiency and alternative fuel requirements specified in RSMo 414.400-414.417. At-the-pump units are cubic feet for CNG; kwh for electric; and gallons for gasoline, diesel, E85 and propane.

Vehicle Type	Description	Number of Vehicles	Miles Traveled	Fuel Consumption (at-the-pump units)		Cost		
				Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel	Maintenance
Gasoline	Cars and Station Wagons	1	33,901	1,468		\$1,752		\$167
Gasoline	Light Duty Trucks, Vans and SUVs	19	256,656	14,057		\$17,141		\$11,944
Diesel	Light Duty Vehicles, Not Otherwise Exempted	0	0	0		\$0		\$0
E85	E85 Flex Fuel Vehicles	8	145,877	5,496	0	\$6,955	\$0	\$3,995
CNG	Dual Fuel and Dedicated CNG Vehicles	0	0	0	0	\$0	\$0	\$0
Propane	Dual Fuel and Dedicated Propane Vehicles	0	0	0	0	\$0	\$0	\$0
Electric	Dedicated Electric Vehicles	0	0		0		\$0	\$0

**EXEMPT VEHICLES**

Exempt vehicles are those vehicles that for reasons given in RSMo 414.400 - 414.417 are exempt from vehicle fuel efficiency and alternative fuel requirements. Agencies unable to provide complete operating data on exempt vehicles include the Attorney General's Office, Central Missouri State University and the Department of Public Safety. As reported by the agencies, some or all vehicle operating data are not shown for less than 3 percent of all exempt vehicles operated by the state.

Motor Fuel	Number of Vehicles		Fuel Consumption (gallons)	Cost	
	<= 8500 lbs	> 8500 lbs		Motor Fuel	Maintenance
Gasoline	9	11	10,101	\$12,131	\$7,470
Diesel	0	3	5,359	\$6,822	\$5,926
B100			0	\$0	

**SUMMARY TABLE  
VEHICLE OPERATIONS**

**UNIVERSITY OF MISSOURI  
FISCAL YEAR 2002**

Many management functions of the Missouri state fleet are decentralized. Day-to-day decisions and record keeping tasks are performed by each agency. Therefore, the operations data used to generate this table were provided by the Missouri state agencies that use on-road and off-road motor vehicles to accomplish their official duties.

**ELIGIBLE VEHICLES**

Eligible vehicles include only those vehicles that are eligible to meet vehicle fuel efficiency and alternative fuel requirements specified in RSMo 414.400-414.417. At-the-pump units are cubic feet for CNG; kwh for electric; and gallons for gasoline, diesel, E85 and propane.

Vehicle Type	Description	Number of Vehicles	Miles Traveled	Fuel Consumption (at-the-pump units)		Cost		
				Gas or Diesel	Alternative Fuel	Gas or Diesel	Alternative Fuel	Maintenance
Gasoline	Cars and Station Wagons	180	1,675,005	52,300		\$66,688		\$63,099
Gasoline	Light Duty Trucks, Vans and SUVs	500	2,782,160	175,448		\$229,988		\$226,155
Diesel	Light Duty Vehicles, Not Otherwise Exempted	11	74,630	5,291		\$6,633		\$6,784
E85	E85 Flex Fuel Vehicles	22	84,699	3,447	646	\$4,615	\$1,092	\$8,207
CNG	Dual Fuel and Dedicated CNG Vehicles	0	0	0	0	\$0	\$0	\$0
Propane	Dual Fuel and Dedicated Propane Vehicles	0	0	0	0	\$0	\$0	\$0
Electric	Dedicated Electric Vehicles	0	0		0		\$0	\$0

**EXEMPT VEHICLES**

Exempt vehicles are those vehicles that for reasons given in RSMo 414.400 - 414.417 are exempt from vehicle fuel efficiency and alternative fuel requirements. Agencies unable to provide complete operating data on exempt vehicles include the Attorney General's Office, Central Missouri State University and the Department of Public Safety. As reported by the agencies, some or all vehicle operating data are not shown for less than 3 percent of all exempt vehicles operated by the state.

Motor Fuel	Number of Vehicles		Fuel Consumption (gallons)	Cost	
	<= 8500 lbs	> 8500 lbs		Motor Fuel	Maintenance
Gasoline	279	198	213,445	\$278,359	\$441,475
Diesel	11	39	37,121	\$38,365	\$84,687
B100			0	\$0	

System Query Date: Monday, March 31, 2003



## **Appendix C**

### **Average Fleet Fuel Economy of New Acquisitions**



**AVERAGE FLEET FUEL ECONOMY  
NEW ACQUISITION PASSENGER CARS**

**MISSOURI STATE FLEET  
FISCAL YEAR 2002**

Shown in RSMo 414.400 - 414.417, "the overall vehicle fuel efficiency for each agency to meet or exceed the fuel efficiency that would be achieved if each vehicle in the agency's fleet met the CAFE standard." The CAFE standard for newly built passenger cars is 27.5 MPG. Throughout the following table, the average vehicle fuel efficiency of all new acquisition passenger cars is shown for each agency. Passenger cars include both cars and station wagons that are eligible to meet vehicle fuel efficiency standards. If an agency is not shown, the agency did not acquire any new passenger cars that were eligible to meet state vehicle fuel efficiency requirements throughout the fiscal year.

DEPARTMENT OF AGRICULTURE	35.2
DEPARTMENT OF CONSERVATION	35.2
DEPARTMENT OF ECONOMIC DEVELOPMENT	34.8
DEPARTMENT OF HEALTH AND SENIOR SERVICES	35.2
DEPARTMENT OF LABOR AND INDUSTRIAL RELATIONS	31.2
DEPARTMENT OF MENTAL HEALTH	34.3
DEPARTMENT OF NATURAL RESOURCES	31.6
DEPARTMENT OF PUBLIC SAFETY	29.3
DEPARTMENT OF TRANSPORTATION	44.1
OFFICE OF ADMINISTRATION	35.2
NORTHWEST MISSOURI UNIVERSITY	35.2
SOUTHWEST MISSOURI STATE UNIVERSITY	25.8
TRUMAN STATE UNIVERSITY	35.2
UNIVERSITY OF MISSOURI	28.3
MISSOURI STATE FLEET	36.3

System Query Date: Wednesday, April 02, 2003

**AVERAGE FLEET FUEL ECONOMY  
NEW ACQUISITION LIGHT DUTY TRUCKS**

**MISSOURI STATE FLEET  
FISCAL YEAR 2002**

Shown in RSMo 414.400 - 414.417, "the overall vehicle fuel efficiency for each agency to meet or exceed the fuel efficiency that would be achieved if each vehicle in the agency's fleet met the CAFE standard." The CAFE standard for newly built light duty trucks is 20.7 MPG. Throughout the following table, the average vehicle fuel efficiency of all new acquisition light duty trucks is shown for each agency. Light duty trucks include trucks, vans and SUVs that are eligible to meet vehicle fuel efficiency standards. If an agency is not shown, the agency did not acquire, throughout the fiscal year, any new light duty trucks that were eligible to meet state vehicle fuel efficiency requirements.

STATE AUDITOR	30.7
DEPARTMENT OF AGRICULTURE	19.1
DEPARTMENT OF CONSERVATION	30.7
DEPARTMENT OF ECONOMIC DEVELOPMENT	18.4
DEPARTMENT OF HEALTH AND SENIOR SERVICES	18.3
DEPARTMENT OF LABOR AND INDUSTRIAL RELATIONS	27.2
DEPARTMENT OF MENTAL HEALTH	30.7
DEPARTMENT OF NATURAL RESOURCES	30.7
DEPARTMENT OF PUBLIC SAFETY	18.9
DEPARTMENT OF TRANSPORTATION	24.4
NORTHWEST MISSOURI UNIVERSITY	19.9
SOUTHWEST MISSOURI STATE UNIVERSITY	25.2
UNIVERSITY OF MISSOURI	23.8
MISSOURI STATE FLEET	25.1

System Query Date: Wednesday, April 02, 2003

## **Appendix D**

# **Percent Alternative Fuel Vehicle Acquisitions and Alternative Fuel Usage**



**PERCENT ALTERNATIVE FUEL VEHICLES  
OF ALL NEW VEHICLE ACQUISITIONS**

**MISSOURI STATE FLEET  
STATUTORY PERIOD 2001 - 2002**

Since agencies that operate less than 16 eligible vehicles are not subject to program acquisition requirements described in RSMo 414.400 - 414.417, only agencies that operate greater than 15 eligible vehicles are shown in the following table. Shown in RSMo 414.410, at least 50 percent of an agency's fleet vehicle acquisitions over a two year statutory period shall be vehicles capable of using alternative fuels.

DEPARTMENT OF AGRICULTURE	69%
DEPARTMENT OF CONSERVATION	93%
DEPARTMENT OF CORRECTIONS	0%
DEPARTMENT OF ECONOMIC DEVELOPMENT	83%
DEPARTMENT OF ELEMENTARY AND SECONDARY EDUCATION	0%
DEPARTMENT OF HEALTH AND SENIOR SERVICES	33%
DEPARTMENT OF LABOR AND INDUSTRIAL RELATIONS	56%
DEPARTMENT OF MENTAL HEALTH	52%
DEPARTMENT OF NATURAL RESOURCES	64%
DEPARTMENT OF PUBLIC SAFETY	0%
DEPARTMENT OF REVENUE	100%
DEPARTMENT OF SOCIAL SERVICES	20%
DEPARTMENT OF TRANSPORTATION	33%
OFFICE OF ADMINISTRATION	73%
CENTRAL MISSOURI STATE UNIVERSITY	No Purchases
NORTHWEST MISSOURI STATE UNIVERSITY	62%
SOUTHWEST MISSOURI STATE UNIVERSITY	50%
TRUMAN STATE UNIVERSITY	44%
UNIVERSITY OF MISSOURI	14%

System Query Date: Friday, December 17, 2002

**PERCENT ALTERNATIVE FUEL VEHICLES  
OF ALL NEW VEHICLE ACQUISITIONS**

**MISSOURI STATE FLEET  
STATUTORY PERIOD 1999 - 2000**

Since agencies that operate less than 16 eligible vehicles are not subject to program acquisition requirements described in RSMo 414.400 - 414.417, only agencies that operate greater than 15 eligible vehicles are shown in the following table. Shown in RSMo 414.410, at least 50 percent of an agency's fleet vehicle acquisitions over a two year statutory period shall be vehicles capable of using alternative fuels.

DEPARTMENT OF AGRICULTURE	26%
DEPARTMENT OF CONSERVATION	30%
DEPARTMENT OF CORRECTIONS	21%
DEPARTMENT OF ECONOMIC DEVELOPMENT	38%
DEPARTMENT OF ELEMENTARY AND SECONDARY EDUCATION	92%
DEPARTMENT OF HEALTH AND SENIOR SERVICES	0%
DEPARTMENT OF LABOR AND INDUSTRIAL RELATIONS	14%
DEPARTMENT OF MENTAL HEALTH	19%
DEPARTMENT OF NATURAL RESOURCES	59%
DEPARTMENT OF PUBLIC SAFETY	45%
DEPARTMENT OF REVENUE	88%
DEPARTMENT OF SOCIAL SERVICES	24%
DEPARTMENT OF TRANSPORTATION	86%
OFFICE OF ADMINISTRATION	62%
CENTRAL MISSOURI STATE UNIVERSITY	0%
NORTHWEST MISSOURI STATE UNIVERSITY	43%
SOUTHEAST MISSOURI STATE UNIVERSITY	0%
SOUTHWEST MISSOURI STATE UNIVERSITY	0%
TRUMAN STATE UNIVERSITY	11%
UNIVERSITY OF MISSOURI	3%

System Query Date: Friday, December 17, 2002

**PERCENT ALTERNATIVE FUEL USAGE  
IN ALTERNATIVE FUEL VEHICLES**

**MISSOURI STATE FLEET  
FISCAL YEAR 2002**

Since agencies that operate less than 16 eligible vehicles are not subject to the 30 percent alternative fuel usage requirement described in RSMo 414.400 - 414.417, only agencies that operate greater than 15 eligible vehicles are shown in the following table. Biodiesel (B20) is included as an alternative fuel even though it is exclusively used to refuel diesel vehicles.

DEPARTMENT OF AGRICULTURE	24%
DEPARTMENT OF CONSERVATION	5%
DEPARTMENT OF CORRECTIONS	24%
DEPARTMENT OF ECONOMIC DEVELOPMENT	13%
DEPARTMENT OF ELEMENTARY AND SECONDARY EDUCATION	0%
DEPARTMENT OF HEALTH AND SENIOR SERVICES	0%
DEPARTMENT OF LABOR AND INDUSTRIAL RELATIONS	1%
DEPARTMENT OF MENTAL HEALTH	1%
DEPARTMENT OF NATURAL RESOURCES	19%
DEPARTMENT OF PUBLIC SAFETY	1%
DEPARTMENT OF REVENUE	4%
DEPARTMENT OF SOCIAL SERVICES	3%
DEPARTMENT OF TRANSPORTATION	86%
OFFICE OF ADMINISTRATION	23%
CENTRAL MISSOURI STATE UNIVERSITY	100%
NORTHWEST MISSOURI STATE UNIVERSITY	79%
SOUTHWEST MISSOURI STATE UNIVERSITY	0%
TRUMAN STATE UNIVERSITY	0%
UNIVERSITY OF MISSOURI	12%

System Query Date: Monday, December 17, 2002

**PERCENT ALTERNATIVE FUEL USAGE  
IN ALTERNATIVE FUEL VEHICLES**

**MISSOURI STATE FLEET  
FISCAL YEAR 2001**

Since agencies that operate less than 16 eligible vehicles are not subject to the 30 percent alternative fuel usage requirement described in RSMo 414.400 - 414.417, only agencies that operate greater than 15 eligible vehicles are shown in the following table. Biodiesel (B20) is included as an alternative fuel even though it is exclusively used to refuel diesel vehicles.

DEPARTMENT OF AGRICULTURE	8%
DEPARTMENT OF CONSERVATION	7%
DEPARTMENT OF CORRECTIONS	18%
DEPARTMENT OF ECONOMIC DEVELOPMENT	4%
DEPARTMENT OF ELEMENTARY AND SECONDARY EDUCATION	0%
DEPARTMENT OF HEALTH AND SENIOR SERVICES	0%
DEPARTMENT OF LABOR AND INDUSTRIAL RELATIONS	0%
DEPARTMENT OF MENTAL HEALTH	1%
DEPARTMENT OF NATURAL RESOURCES	23%
DEPARTMENT OF PUBLIC SAFETY	2%
DEPARTMENT OF REVENUE	3%
DEPARTMENT OF SOCIAL SERVICES	1%
DEPARTMENT OF TRANSPORTATION	17%
OFFICE OF ADMINISTRATION	18%
CENTRAL MISSOURI STATE UNIVERSITY	100%
NORTHWEST MISSOURI STATE UNIVERSITY	0%
SOUTHWEST MISSOURI STATE UNIVERSITY	0%
TRUMAN STATE UNIVERSITY	0%
UNIVERSITY OF MISSOURI	4%

System Query Date: Monday, December 16, 2002

## **Appendix E**

# **Program Barriers and Recommendations**



## **Program Barriers**

- Because many fleet operations decisions are made by the agencies, most state agencies have developed different data tracking methods for the reporting of agency fleet operations and vehicle acquisitions data. In some cases, some of the annual reporting parameters requested for this report are not tracked by the agencies; therefore, estimated values must be prepared for the missing parameters to comply with annual reporting requirements.
- The limitations of public transportation, including scheduling and lack of local transportation in metropolitan areas, often inhibit this means for conducting state business as an effective way of reducing state fleet fuel consumption.
- In some cases, the Office of Administration does not receive any bids for certain vehicle classes that are CAFE compliant. If an agency feels a vehicle from a more fuel-efficient class cannot meet their needs, the agency submits a waiver request to acquire less efficient vehicles. (EPA publishes the CAFE figures, which can be found at their internet site. The published CAFE figures should not be confused with those figures published in the Fuel Economy Guide or on the actual vehicle sticker.)
- The statutory limitations on the incremental cost differential may still prevent the procurement of some types of alternative fuel vehicles. For example, many CNG vehicles still exceed the allowable 17 % incremental cost cap in the two metropolitan areas.
- Lack of adequate refueling infrastructure, especially for CNG and E-85, has slowed progress in the use of alternative fuels. Only one CNG station in St. Louis and five public E-85 stations in four cities are currently available for refueling. Convenience and driving distance to public stations remain barriers.
- Lack of a uniform tracking system for all state agencies has slowed the reporting process.

## **Program Recommendations**

The following recommendations are based primarily on guidance provided within Missouri Revised Statute, Sections 414.400 – 414.417, and the annual reports submitted by the agencies to the Energy Center.

- Carpool or mass transit employees for work-related travel.
- Expand the use of telecommunications systems to decentralize work and reduce the need for travel to meetings, conferences and other offices. Consider options such as e-mails, facsimile, and teleconferencing to reduce the need for travel.
- The Missouri Revised Statute, Section 414.400, sets the minimum annual fuel requirement for AFVs of 30 percent alternative fuel by July 1, 2001. The Energy Center continues to encourage the agencies to promote the use of alternative fuel as a replacement for traditional

vehicle fuels when alternative fuels are available. The statute sets the requirement for annual alternative fuel vehicle acquisitions to 50 percent of all eligible vehicles and the Energy Center continues to encourage the agencies to comply with alternative fuel vehicle acquisition requirements.

- To promote alternative fuel use, state staff who commute frequently in state vehicles may require training on the operation of alternative fuel vehicles, tracking of alternative fuel use and refueling with alternative fuels. Qualified staff at the Energy Center are available to provide alternative fuel issues training as requested by the agencies.
- Following the end of the fiscal year, the Energy Center requests that fleet operations data on vehicle operations and exempted vehicles (Worksheets 1, 2 and 3) be submitted by the agencies on or before the first day of September.
- To maximize alternative fuel usage in alternative fuel vehicles, the Energy Center encourages agencies to base alternative fuel vehicles at agency locations that are closest to refueling locations selling the alternative fuel used. One mechanism to assist in this process would be for agencies to create a map of their fleet locations with alternative fuel vehicles.
- The Energy Center also encourages the administrative staff of all agencies to promote, encourage and support the refueling of agency alternative fuel vehicles with the designated alternative fuel whenever agency staff drive and refuel these vehicles.
- Create a uniform tracking system for all state agencies. The Office of Administration fleet manager is currently working on this system.